

TATA CHEMICALS LIMITED

SAFETY DATA SHEET (SDS)

Name of chemical: Sodium Bicarbonate

1. PRODUCT IDENTIFICATION / COMPANY ADDRESS

Trade Name	Sodium Bicarbonate	Common Name	Baking Soda	Synonyms	Bicarb, baking soda, bicarbonate, sodium acid carbonate
Company Name Phone / Fax	e / Address /	<u>Contact in ca</u> +91(02892 67	hoomi Dwark ase of Emerc 75802 /03)	a (Gujarat) 36′ jency Only:	l 345 INDIA vendra Thakur
Chemical Name	9	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

Structural	H ² 0 - Na +	Chemical Family	
Formula	o	Molecular weight	84.05 g/mol
CAS No	144-55-8	Molecular Formula	NaHCO ₃
Name	Product identifier	%	Classification
Sodium Bicarbonate	144-55-8	100%	Eye Irrit. 2B, H320

4. FIRST AID MEASURE

Updated as On : 21.06.2021

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Ingestion	 Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waist band. Get medical attention if symptoms appear
Inhalation	• If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Eyes	 Flush eyes with running water for 15 minutes, maintaining the eyelids wide open to eliminate the product. Consult an ophthalmologist in case of persistent pain.
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	 Can be recovered and re-used if contamination does not present a problem. 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

7. HANDLING AND STORAGE

General precaution	 Use air conveying/mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generated.
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 p	otection	
	R		
Skin	• Dry product is generally no irritating to intact skin. However, the product can be irritating where shas been damaged and can creat skin irritation after long exposure when moisture is present. Unco such conditions, gloves and low sleeved clothing are recommend to minimize skin contact.	nis kin ate es ler 19-	• 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 worker breathing zone cannot be controll with ventilation or other engineering means, workers should we respirators or dust masks approved by NIOSH / OSHA or comparation certification organization to protect them against airborne dust. 	ed ng ear d	
	Exposure	limits	
TLV-TWA	15 mg/m3 (Total Dust) T 5 mg/m3 (Respirable Dust)	LV-STEL	
Appropriate Engineering Control		inity of any poter	eye wash fountains should be ntial exposure. Provide adequate

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9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.	Possibility of Hazardous reaction	Contact with acids except under controlled conditions.
Hazardous Reactions/ Decomposition products	 May liberate Carbon Monoxide Carbon Dioxide or Oxides Fumes. 	Incompatible Materials	Strong acids. Strong oxidizers.
Condition to avoid	 Incompatible materials, Mois air. 	sture. Stable in dry air, bu	t slowly decomposes in moist

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Ingestion, Ey	res, Inhalation, Skin A	bsorption		
LD50 (oral / rats) mg/kg	4000 mg/kg	LD50 (dermal/ rats) mg/kg		LC50 (inhalation / rats) - 4 hrs. mg/l	
Target Organ Effects	Mainly Respi	ratory system			
Symptoms relate toxicological cha		I, chemical &	Based on ava are not met. Causes eye i	ailable data, the classific irritation.	ation criteria

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12. ECOLOGICAL INFORMATION

Mobility in Soil	No additional information available		
Persistence and 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 Statement			
Packaging / Precaution			
Shipping Marking			

15. REGULATORY INFORMATION

LABELING:

PHRASES R:

Not classified as hazardous or toxic to users.

PHRASES S:

Not classified as hazardous or toxic to users.

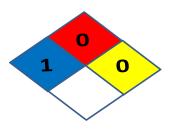
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16. OTHER INFORMATION

NFPA Rating :



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