

**SAFETY DATA SHEET (SDS)**

<b>Name of chemical:</b> Sodium Bicarbonate
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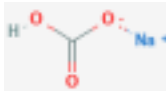
**1. PRODUCT IDENTIFICATION**

<b>Trade Name</b>	Sodium Bicarbonate	<b>Common Name</b>	Baking Soda	<b>Synonyms</b>	Bicarb, baking soda, bicarbonate, sodium carbonate, acid carbonate
<b>Chemical Name</b>		Sodium Bicarbonate (Crystalline Solid)			

**2. HAZARD IDENTIFICATION**

<b>Hazard Classification</b>	Eye Irrit. 2B, H320
<b>LABEL ELEMENTS</b>	No Labeling
<b>Signal word</b>	Danger
<b>Hazard statement</b>	H320 - Causes eye irritation
<b>Precautionary statement</b>	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**

<b>Structural Formula</b>		<b>Chemical Family</b>	
		<b>Molecular weight</b>	84.05 g/mol
<b>CAS No</b>	144-55-8	<b>Molecular Formula</b>	NaHCO <sub>3</sub>
<b>Name</b>	<b>Product identifier</b>	<b>%</b>	<b>Classification</b>
Sodium Bicarbonate	144-55-8	100%	Eye Irrit. 2B, H320

#### 4. FIRST AID MEASURE

MSDS – SODIUM BICARBONATE

<b>Ingestion</b>	<ul style="list-style-type: none"><li>• Do NOT induce vomiting unless directed to do so by medical personnel.</li><li>• Never give anything by mouth to an unconscious person.</li><li>• Loosen tight clothing such as a collar, tie, belt or waist band.</li><li>• Get medical attention if symptoms appear</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>• If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</li></ul>
<b>Eyes</b>	<ul style="list-style-type: none"><li>• Flush eyes with running water for 15 minutes, maintaining the eyelids wide open to eliminate the product.</li><li>• Consult an ophthalmologist in case of persistent pain.</li></ul>
<b>Skin</b>	<ul style="list-style-type: none"><li>• Wash with soap and water. Cold water may be used.</li><li>• Get medical attention if irritation develops.</li></ul>
<b>Antidote</b>	
<b>Most important symptoms/ effects, acute and or delayed</b>	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.
<b>Indication of immediate medical attention and special treatment needed</b>	No additional information available

#### 5. FIRE FIGHTING MEASURES

<b>Fire extinguishing media</b>	<ul style="list-style-type: none"><li>• In case of fire in close proximity, all means of extinguishing are acceptable.</li></ul>
<b>Hazardous decomposition products</b>	No additional information available
<b>Special fire fighting procedure</b>	<ul style="list-style-type: none"><li>• Use Protective Equipment as applicable to the combustion products associated with the fire.</li></ul>
<b>Precaution to Fire Fighters</b>	Non-flammable.

#### 6. ACCIDENTAL RELEASE MEASURES


<b>Personal precaution</b>	<ul style="list-style-type: none"><li>• Refer to Section 8 "Exposure Controls / Personal Protection".</li></ul>
<b>Precautions for the environment</b>	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

<b>Clean up method</b>	<ul style="list-style-type: none"> <li>• Can be recovered and re-used if contamination does not present a problem.</li> <li>• 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</li> </ul>
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## 7. HANDLING AND STORAGE

<b>General precaution</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Use approved respiratory protection when ventilation systems are not available. • Selection of respirators is based on the dust cloud generated.</li> </ul>
<b>Personal protection</b>	Wear personal protective equipment as Section-8
<b>Storage</b>	• Protect from excessive heat and moisture. Store away from acids
<b>Incompatibilities</b>	Strong oxidizers. Strong acids.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Personal protection</b> 			
<b>Skin</b>	<ul style="list-style-type: none"> <li>• Dry product is generally non irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation after long exposures when moisture is present. Under such conditions, gloves and long sleeved clothing are recommended to minimize skin contact.</li> </ul>	<b>Eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<b>Respiration</b>	<ul style="list-style-type: none"> <li>• Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH / OSHA or comparable certification organization to protect them against airborne dust.</li> </ul>	<b>Other</b>	
<b>Exposure limits</b>			

<b>TLV-TWA</b>	15 mg/m3 (Total Dust) 5 mg/m3 (Respirable Dust)	<b>TLV-STEL</b>	
<b>Appropriate Engineering Control</b>	Appropriate engineering controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.	<b>Possibility of Hazardous reaction</b>	Contact with acids except under controlled conditions.
<b>Hazardous Reactions/ Decompositi on products</b>	• May liberate Carbon Monoxide Carbon Dioxide or Oxides Fumes.	<b>Incompatible Materials</b>	Strong acids. Strong oxidizers.
<b>Condition to avoid</b>	• Incompatible materials, Moisture. Stable in dry air, but slowly decomposes in moist air.		

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of exposure</b>	Ingestion, Eyes, Inhalation, Skin Absorption				
<b>LD50 (oral / rats) mg/kg</b>	4000 mg/kg	<b>LD50 (dermal/ rats) mg/kg</b>		<b>LC50 (inhalation / rats) - 4 hrs. mg/l</b>	-----
<b>Target Organ Effects</b>	Mainly Respiratory system				
<b>Symptoms related to physical, chemical &amp; toxicological characteristics</b>			Based on available data, the classification criteria are not met. Causes eye irritation.		

## 12. ECOLOGICAL INFORMATION

<b>Mobility in Soil</b>	No additional information available
<b>Persistence and degradability</b>	Not established.
<b>Bioaccumulative Potential</b>	Not established.
<b>Effects on fish (Ecotoxicity)</b>	Non-toxic, the substance dissociates readily into its constituent ions, all of which are abundant in nature
<b>Effects on birds</b>	No data available
<b>Effects on bees</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

- Waste must be disposed of in accordance with federal, state and local environmental control regulations

## 14. TRANSPORT INFORMATION

<b>UN No.</b>	---	<b>IMDG No.</b>	---
<b>Shipping Name</b>	Sodium Bicarbonate	<b>Hazard class</b>	---
<b>Packing group</b>		<b>Hazard Sub class</b>	---

<b>Marine Pollutant</b>	Yes	<b>Labels required</b>	---
<b>Warning Statement</b>	---		
<b>Packaging / Precaution</b>			
<b>Shipping Marking</b>			

## 15. REGULATORY INFORMATION

### **LABELING:**

### **PHRASES R:**

Not classified as hazardous or toxic to users.

### **PHRASES S:**

Not classified as hazardous or toxic to users.

## 16. OTHER INFORMATION

NFPA Rating :

The information provided in this Material Safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with other materials