



# SODA ASH ( $\text{Na}_2\text{CO}_3$ )

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION / COMPANY ADDRESS

Name Of Chemical	Soda Ash (All Grade)
Synonyms	Crystal Carbonate
Chemical Classification	---
Formula	$\text{Na}_2\text{CO}_3$
Company Name / Address / Phone	Tata Chemicals Limited, Mithapur, District Jamnagar (Gujarat) 361345 INDIA Tel +91(02892) 665991/92/93 Emergency No +91(02892 665802),+91 9227676113 Contact Person : Devendra Thakur

### 2. HAZARD IDENTIFICATION

NFPA Classification	Health Hazard: 2 Fire Hazard: 0 Reactive Hazard: 1 Special Hazard :	
Primary Routes of Entry	Ingestion, Eyes, Inhalation, Skin Absorption	
Inhalation		<ul style="list-style-type: none"> <li>• Prolonged inhalation of product dusts may irritate nose, throat, and lungs.</li> </ul>
Skin Contact		<ul style="list-style-type: none"> <li>• Prolonged contact may cause skin irritation (red, dry, cracked skin).</li> </ul>
Ingestion		<ul style="list-style-type: none"> <li>• Although low in toxicity, ingestion may cause nausea, vomiting, stomach ache, and diarrhea.</li> </ul>
Eye Contact		<ul style="list-style-type: none"> <li>• causes Irritating to the eyes, redness, pain and lachrymation.</li> </ul>

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	
Component	CAS-No.
Sodium Carbonate	497-19-8

<b>4. FIRST AID MEASURE</b>			
<b>Eye contact</b>	<ul style="list-style-type: none"> <li>• Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.</li> </ul>		
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>• In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.</li> </ul>		
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>• Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.</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>5. FIRE FIGHTING MEASURES</b>			
<b>Flammable properties</b>			
<b>Flash Pont</b>	Not Applicable	<b>LEL (%)</b>	Not Applicable
<b>Fire Pont</b>	Not Applicable	<b>UEL (%)</b>	Not Applicable
<b>FIRE AND EXPLOSION HAZARDS:</b>	Non-flammable.		
<b>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>FIRE FIGHTING INSTRUCTIONS:</b>	<ul style="list-style-type: none"> <li>• Use Protective Equipment as applicable to the combustion products associated with the fire.</li> </ul>		
<b>6. ACCIDENTAL RELEASE MEASURES</b>			
<b>Personal precaution</b>	<ul style="list-style-type: none"> <li>• Refer to Section 8 “Exposure Controls / Personal Protection”</li> </ul>		
<b>Methods for containment /Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>• Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.</li> <li>• This product, if spilled, 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.</li> </ul>		

## 7. HANDLING AND STORAGE

<b>Handling</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. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains.</li> <li>Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solutions can get hot. Use good personal hygiene and housekeeping.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>Store in a cool dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture</li> </ul>

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Personal protection</b>			
<b>Eye protection</b>	<ul style="list-style-type: none"> <li>For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses. Otherwise, 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>Skin and body protection</b>	<ul style="list-style-type: none"> <li>Wear long-sleeve shirt and trousers, and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious (e.g., rubber, neoprene, etc.) gloves when handling solutions.</li> </ul>		
<b>Respiratory protection</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 or comparable certification organization to protect them against airborne dust.</li> </ul>		
<b>Exposure limits</b>			
<b>PEL / TLV-TWA (OSHA)</b>	10 mg/m <sup>3</sup> (Inhalable Dust) 5 mg/m <sup>3</sup> (Respirable Dust)	<b>TLV-STEL</b>	.....

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	granular solid
Color	White
Odor	Odorless

### Safety Data

Flash Point	Not Applicable	Freezing point	851 'c
Lower explosive limit	Not Applicable	Boiling point/boiling range	Decompose
Upper Explosive limit	Not Applicable	Vapor pressure	Not Applicable
Auto ignition temperature	Not Applicable	Bulk density	950-1035
Molecular Weight	105.9885 g/mol	Water solubility	220 (g/L) @22°C
pH	11.6	Evaporation rate	Not Applicable

## 10. STABILITY AND REACTIVITY

Conditions to avoid	<ul style="list-style-type: none"><li>• Contract with acids will release carbon dioxide, heat. Contract with lime dust in the presence of moisture can produce corrosive sodium hydroxide.</li></ul>
Materials to avoid	<ul style="list-style-type: none"><li>• May react with aluminum, acids, fluorine, lithium, and 2,4,6-Trinitrotoluene.</li></ul>
Hazardous decomposition products	<ul style="list-style-type: none"><li>• When heated to decomposition, carbon dioxide is released.</li></ul>
Hazardous polymerization	<ul style="list-style-type: none"><li>• Will not occur.</li></ul>

## 11. TOXICOLOGICAL INFORMATION

Target Organ	Respiratory system	IDLH	.....
LD50 (oral / rats)	4,090 mg/kg	LC50 (inhalation / rats)	24 – hour 800 mg/m3

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	<ul style="list-style-type: none"><li>• Fishes LC50, 96 h, 300 mg/l</li></ul>
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### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

UN No.	.....	Hazchem No.	.....
Shipping Name	.....	Codes/Label	.....

### 15. REGULATORY INFORMATION

#### LABELING:

PHRASES R:	R36: Irritating to eyes R37: Irritating to respiratory system R38: Irritating to skin
PHRASES S:	S22: Do not breathe dust S24: Avoid contact with skin S25: Avoid contact with eyes S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

### 16. OTHER INFORMATION

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

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