



# Material Safety Data Sheet

**SODA ASH**

## A. GENERAL INFORMATION

<b>TRADE NAME (COMMON NAME):</b> SODA ASH		<b>CAS NUMBER:</b> 497-19-8	
<b>CHEMICAL NAME AND/OR SYNONYM:</b> Sodium Carbonate			
<b>FORMULA:</b> Na <sub>2</sub> CO <sub>3</sub>		<b>MOLECULAR WEIGHT:</b> 105.99	
<b>MANUFACTURER/ADDRESS:</b> GENERAL CHEMICAL CORPORATION 90 East Halsey Road, P.O. Box 389 Parsippany, NJ 07054			
<b>CONTACT:</b> Manager of Product Safety	<b>PHONE NUMBER:</b> (973) 515-1840	<b>LAST ISSUE DATE:</b> August, 1996	<b>CURRENT ISSUE DATE:</b> May, 2001

## B. FIRST AID MEASURES

		<b>EMERGENCY PHONE NUMBER:</b> (800) 631-8050
<b>EYES:</b>	Flush with plenty of water for at least 15 minutes and get medical attention.	
<b>SKIN:</b>	Wash with plenty of water.	
<b>INHALATION:</b>	Remove to fresh air.	
<b>INGESTION:</b>	Drink large quantities of water to dilute the material. Do not induce vomiting. Get medical attention for irritation, ingestion or discomfort from inhalation.	

## C. HAZARDS INFORMATION

<b>INHALATION:</b> Inhalation of product dust may irritate nose, throat, and lungs.	
<b>INGESTION:</b> Although low in toxicity, ingestion can be harmful – consult a physician. May irritate mouth, esophagus, stomach, etc., LD <sub>50</sub> (rat): 2.8 gm/kg. See reference (a).	
<b>SKIN:</b> May cause skin irritation from prolonged contact.	
<b>EYES:</b> Can irritate or burn eyes.	
<b>PERMISSIBLE CONCENTRATION: AIR</b> (SEE SECTION J)	<b>BIOLOGICAL</b>
No TLV established.	None.
Not established	
<b>UNUSUAL CHRONIC TOXICITY:</b> None known.	

### C. HAZARDS (Cont.)

<b>FLASH POINT:</b> Not flammable	° C	<b>AUTO IGNITION TEMPERATURE</b> NA	° C	<b>FLAMMABLE LIMITS IN AIR (% BY VOL.)</b>	
<b>OPEN CUP</b> <input type="checkbox"/>	<b>CLOSED CUP</b> <input type="checkbox"/>			LOWER - NA	UPPER - NA
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> None.					

### D. PRECAUTIONS/PROCEDURES

<b>FIRE EXTINGUISHING AGENTS RECOMMENDED:</b> NA	
<b>FIRE EXTINGUISHING AGENTS TO AVOID:</b> NA	
<b>SPECIAL FIREFIGHTING PRECAUTIONS:</b> NA	
<b>VENTILATION:</b> Local exhaust if dusty condition prevails.	
<b>NORMAL HANDLING:</b> Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solutions can get hot.	
<b>STORAGE:</b> Store in a cool, dry area away from acids. Prolonged storage may cause product to cake from atmospheric moisture.	
<b>SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT - SECTION E)</b> Shovel up dry chemical into an empty container with a cover. Flush residue with plenty of water. (See Section I for disposal methods).	
<b>SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS:</b> Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture the two materials combine to form caustic soda (NaOH), which may cause burns.	<b>SIGNAL WORD - WARNING!</b>

### E. PERSONAL PROTECTIVE EQUIPMENT

<b>RESPIRATORY PROTECTION:</b> Where required, use a respirator approved by NIOSH for product dusts.
<b>EYES AND FACE:</b> Wear hard hat (or other head covering) and chemical safety goggles. Do not wear contact lenses.
<b>HANDS, ARMS, AND BODY:</b> Wear long-sleeve shirt and trousers, and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious gloves when handling solutions.
<b>OTHER CLOTHING AND EQUIPMENT:</b> Eyewash is recommended.

**F. PHYSICAL DATA**

<b>MATERIAL IS AT NORMAL CONDITIONS:</b> LIQUID <input type="checkbox"/> SOLID <input checked="" type="checkbox"/> GAS <input type="checkbox"/> <input type="checkbox"/> _____		<b>APPEARANCE AND COLOR:</b> White powder, Odorless.	
<b>BOILING POINT:</b> ° C <b>MELTING POINT:</b> 854 ° C	<b>SPECIFIC GRAVITY:</b> (H <sub>2</sub> O = 1) 2.533	<b>VAPOR DENSITY:</b> (AIR =1) NA	
<b>SOLUBILITY IN WATER:</b> (% BY WEIGHT) 17% solution at 20C	<b>pH:</b> 1% solution; pH = 11.3	<b>VAPOR PRESSURE:</b> (mm Hg @ 20°C) <input type="checkbox"/> (PSIG) <input type="checkbox"/> NA	
<b>EVAPORATION RATE:</b> (Butyl acetate=1) <input type="checkbox"/> (Ether = 1.0) <input type="checkbox"/> NA	<b>% VOLATILES BY VOLUME:</b> (AT 20°C) NA		

**G. REACTIVITY DATA**

<b>STABILITY:</b> UNSTABLE <input type="checkbox"/> STABLE <input checked="" type="checkbox"/>	<b>CONDITIONS TO AVOID:</b> None.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b> Contact with acids will release carbon dioxide gas. When mixed with lime dust and water, corrosive caustic soda may be produced.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> See above	
<b>HAZARDOUS POLYMERIZATION:</b> MAY OCCUR <input type="checkbox"/> WILL NOT OCCUR <input checked="" type="checkbox"/>	<b>CONDITIONS TO AVOID:</b> None.

**H. HAZARDOUS INGREDIENTS (MIXTURES ONLY)**

MATERIAL OR COMPONENT/C.A.S. #	WT. %	HAZARD DATA (See Sect. J)
NA		

## I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY:		OCTANOL/WATER PARTITION COEFFICIENT ND
ND		
EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF SO, REPORTABLE QUANTITY:		40 CFR 116-117
WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS):  If permitted by applicable disposal regulations, bury in a solid waste landfill or dissolve and neutralize as follows: Dissolve in water using caution as solution can get hot. Neutralize with acid and flush to sewer with plenty of water. Good ventilation is required during neutralization due to release of CO <sub>2</sub> gas. Neutralized waste may have to be disposed of by an approved contractor.		
RCRA STATUS OF <u>UNUSED</u> MATERIAL IF DISCARDED: Not a hazardous waste.	HAZARDOUS WASTE NUMBER: (IF APPLICABLE) --	40 CFR 261

## J. REFERENCES

PERMISSIBLE CONCENTRATIONS REFERENCES:  None.		
REGULATORY STANDARDS	DOT CLASSIFICATION: Not regulated.	49 CFR 173
None additional cited.		
GENERAL: (a) General Chemical Corporation data, unpublished.		

## K. ADDITIONAL INFORMATION

This product is not for use as a food or drug additive.
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