



# Material Safety Data Sheet

**SODIUM CARBONATE**

## A. GENERAL INFORMATION

<b>TRADE NAME (COMMON NAME):</b> SODIUM CARBONATE (VARIOUS GRADES)		<b>CAS NUMBER:</b> 497-19-8	
<b>CHEMICAL NAME AND/OR SYNONYM:</b> Soda Ash			
<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 Parsippany, NJ 07054			
<b>CONTACT:</b> Manager of Product Safety	<b>PHONE NUMBER:</b> (973) 515-1840	<b>LAST ISSUE DATE:</b> January, 1989	<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.  <u>Get prompt medical attention</u> for ingestion, inhalation, or irritation.	

## C. HAZARDS INFORMATION

<b>INHALATION:</b> Inhalation of product dusts 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> May irritate or burn eyes.		
<b>PERMISSIBLE CONCENTRATION: AIR</b> (SEE SECTION J)	<b>BIOLOGICAL</b>	
No TLV established.	Not established	None.
<b>UNUSUAL CHRONIC TOXICITY:</b> None known.		

## C. HAZARDS (Cont.)

<b>FLASH POINT:</b> NA (solid) ° C	<b>AUTO IGNITION TEMPERATURE</b> NA ° C	<b>FLAMMABLE LIMITS IN AIR (% BY VOL.)</b> NA
<b>OPEN CUP</b> <input type="checkbox"/> <b>CLOSED CUP</b> <input type="checkbox"/>		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> May explode if confined at or above 140 ° C. Also see section G (Reactivity data).		

## D. PRECAUTIONS/PROCEDURES

<b>FIRE EXTINGUISHING AGENTS RECOMMENDED:</b> Soak with water. CO <sub>2</sub> and dry chemicals may be used, particularly for smaller fires.	
<b>FIRE EXTINGUISHING AGENTS TO AVOID:</b> No standard agent.	
<b>SPECIAL FIREFIGHTING PRECAUTIONS:</b> Wear self-contained breathing apparatus including eye protection. Use water spray to keep containers cool and to knock down vapors.	
<b>VENTILATION:</b> Use local (point) ventilation at product handling or transfer points. Use general mechanical ventilation for other work areas.	
<b>NORMAL HANDLING:</b> Avoid contact with skin or eyes. Do not inhale dusts or mists. Use with adequate ventilation.	
<b>STORAGE:</b> Cool, well ventilated area. Keep container closed.	
<b>SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT – SECTION E)</b> Sweep with a minimum of dusting. Collect and store in a closed container (metal, plastic, or glass).	
<b>SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS:</b> Above 90° C, air-tight containers may build up internal pressure.	<b>SIGNAL WORD</b> WARNING!

## E. PERSONAL PROTECTIVE EQUIPMENT

<b>RESPIRATORY PROTECTION:</b> Not required when used with local exhaust ventilation. If dusty conditions exist, use a full face high efficiency particulate respirator.
<b>EYES AND FACE:</b> For normal conditions, safety glasses with sideshields. For dusty, misty conditions and for liquid transfer operations, use chemical safety goggles. Do not wear contact lenses.
<b>HANDS, ARMS, AND BODY:</b> If in contact with the product or product dusts, impervious gloves and disposable work clothing should be worn. If in contact with product solutions or mists, impervious protective clothing and glasses should be worn. Contaminated clothing including protective clothing should not be taken home.
<b>OTHER CLOTHING AND EQUIPMENT:</b> Eyewash and safety shower.

## 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 20 °C	<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

<b>DEGRADABILITY/AQUATIC TOXICITY:</b>  Not determined.		<b>OCTANOL/WATER PARTITION COEFFICIENT</b> ND
<b>EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311)</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> <b>IF SO, REPORTABLE QUANTITY:</b>		<b>40 CFR 116-117</b>
<b>WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS):</b>  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.		
<b>RCRA STATUS OF <u>UNUSED</u> MATERIAL IF DISCARDERD:</b> Not a hazardous waste.	<b>HAZARDOUS WASTE NUMBER: (IF APPLICABLE)</b> --	<b>40 CFR 261</b>

## J. REFERENCES

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

## K. ADDITIONAL INFORMATION

<p>This product is not for use as a food or drug additive.</p>
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