# MSDS by MSDS Number

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**MSDS Number:GZ001000 MSDS Version:002**

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002 03/18/93 SODA ASH

PRODUCT NAME:
SODA ASH

MSDS #: GZ001000

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME):  Soda Ash
C.A.S. No.  497-19-8
CHEMICAL NAME AND/OR SYNONYM:  Sodium Carbonate
FORMULA:  Na2CO3
MOLECULAR WEIGHT:  105.99
CURRENT ISSUE DATE:  MARCH 1993

B. FIRST AID MEASURES

INHALATION: Remove to fresh air.
INGESTION: Drink large quantities of water to dilute the material.  Do not
           induce vomiting.
SKIN: Wash with plenty of water.
EYES: Flush with plenty of water for at least 15 minutes and get medical
      attention.
Get medical attention for irritation, ingestion, or discomfort from
inhalation.

C. HAZARDS INFORMATION

HEALTH –
INHALATION: Inhalation of product dust may irritate nose, throat and lungs.
INGESTION: Although low in toxicity, ingestion can be harmful – consult a
           physician.  May irritate mouth, esophagus, stomach, etc.
           LD50(rat):  2.8 gm/kg.  See reference (a).
SKIN: May cause skin irritation from prolonged contact.
EYES: May irritate or burn eyes.
PERMISSIBLE CONCENTRATION: AIR: (SEE SECTION J):  None established.
                                                  No TLV established.
                                                  BIOLOGICAL: None.
UNUSUAL CHRONIC TOXICITY: None known.
FIRE AND EXPLOSION –
FLASH POINT: Not flammable
AUTO IGNITION TEMPERATURE: NA
FLAMMABLE LIMITS IN AIR (% BY VOL.): LOWER – NA   UPPER – NA
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

D. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED: NA
FIRE EXTINGUISHING AGENTS TO AVOID: NA
SPECIAL FIRE FIGHTING PRECAUTIONS: NA
VENTILATION: Local exhaust if dusty condition prevails.
NORMAL HANDLING: Avoid eye contact or prolonged skin contact.  Avoid
   breathing dust.  When dissolving, add to water cautiously and with
   stirring; solutions can get hot.
STORAGE: Store in a cool, dry area away from acids.  Prolonged storage may
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cause product to cake from atmospheric moisture.
SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT – SECTION E):
   Shovel up dry chemical into an empty container with a cover.  Flush
   residue with plenty of water.  (See Section I for disposal methods).
SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS: SIGNAL WORD – WARNING|
   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.

## E. PERSONAL PROTECTIVE EQUIPMENT

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

## F. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS): SOLID
APPEARANCE AND ODOR: White powder.  Odorless.
BOILING POINT: NA
MELTING POINT: 854 Degrees C
SPECIFIC GRAVITY (H2O=1): 2.533
VAPOR DENSITY (AIR=1): NA
SOLUBILITY IN WATER (% by Weight): 17% solution at 20 Degrees C
pH: 1% solution; pH = 11.3
VAPOR PRESSURE:  NA
EVAPORATION RATE:  NA
% VOLATILES BY VOLUME (At 20 Degrees C): NA

## G. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: None.
INCOMPATIBILITY (MATERIALS TO AVOID): Contact with acids will release
   carbon dioxide gas.  When mixed with lime dust and water, corrosive
   caustic soda may be produced.
HAZARDOUS DECOMPOSITION PRODUCTS: SEE INCOMPATIBILITY (MATERIALS TO AVOID).
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: None.

## H. HAZARDOUS INGREDIENTS (Mixtures Only)

MATERIAL OR COMPONENT/C.A.S. #: NA

## I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY: ND
OCTANOL/WATER PARTITION COEFFICIENT: ND
EPA HAZARDOUS SUBSTANCES (CLEAN WATER ACT SEC. 311): NO
                     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 CO2 gas.
   Neutralized waste may have to be disposed of by an approved contractor.
RCRA STATUS OF UNUSED MATERIAL IF DISCARDED: Not a hazardous waste.
HAZARDOUS WASTE NUMBER: (IF APPLICABLE): NA            (40 CFR 261)

## J. REFERENCES

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

## K. ADDITIONAL INFORMATION

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

FOOTNOTE:  ND = NOT DETERMINED       NA = NOT APPLICABLE
           * = PROPRIETARY – TRADE SECRET

For Additional Information:
Contact: MSDS Coordinator – Univar USA
During business hours, Pacific Time – (425) 889–3400

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END OF MSDS