

Sold By:  
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### SODA ASH (SODIUM CARBONATE, ANHYDROUS)

Note: This MSDS is not valid three years after date prepared.

Material Safety Data Sheet Date Prepared: 1/31/06 Supersedes Date: 6/01/04

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#### 1. PRODUCT AND COMPANY DESCRIPTION

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##### Emergency Phone Numbers:

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CONTACT: CHEMTRAC (800-424-9300) IN THE UNITED STATES OR OCI (1-203-225-3100  
or 1-888-278-1657); IN CANADA CONTACT CANUTEC (613) 996-6666.

##### Chemical Name or Synonym:

SODIUM CARBONATE ANHYDROUS; DISODIUM CARBONATE; SODA ASH; CARBONIC  
ACID, DISODIUM SALT

##### Molecular Formula:

Na2CO3. Molecular weight 105.99

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS Reg Number	EINECS Number	OSHA Hazard	Percentage
SODIUM CARBONATE	497-19-8	207-838-8	Y	100

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#### 3. HAZARDS IDENTIFICATION

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A. Physical Appearance and Odor:  
White granules solid, odorless

Warning Statements:  
**WARNING: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION**

B. POTENTIAL HEALTH EFFECTS

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#### 3. HAZARDS IDENTIFICATION (Continued)

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Acute Eye:  
Causes irritation.

Acute Skin:  
May cause redness, swelling

Acute Inhalation:  
May cause upper respiratory tract irritation, lung irritation.

Acute Ingestion:  
Low acute oral toxicity. May cause nausea, vomiting, diarrhea, irritation, corrosion.

Chronic Effects:  
This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

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#### 4. FIRST AID MEASURES

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##### FIRST AID MEASURES FOR ACCIDENTAL:

###### **Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention.

###### **Skin Exposure:**

In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

###### **Inhalation:**

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek immediate medical attention.

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#### 4. FIRST AID MEASURES (Continued)

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###### **Ingestion:**

If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

##### **MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:**

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

##### **NOTES TO PHYSICIAN:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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#### 5. FIRE FIGHTING MEASURES

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##### FIRE HAZARD DATA:

###### **Flash Point:**

Not Applicable

###### **Extinguishing Media:**

Not combustible. Use extinguishing method suitable for surrounding fire.

###### **Special Fire Fighting Procedures:**

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

###### **Unusual Fire and Explosion Hazards:**

Not combustible.

###### **Hazardous Decomposition Materials (Under Fire Conditions)**

Carbon dioxide

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## 6. ACCIDENTAL RELEASE MEASURES

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**Evacuation Procedures and Safety:**

Ventilate closed spaces before entering. Wear appropriate protective gear for situation. See Personal Protection information in Section 8

**Containment of Spill:**

Follow procedure described below under Cleanup and Disposal of Spill.

**Cleanup and Disposal of Spill:**

Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Collect washings for disposal. Decontaminate tools and equipment following cleanup. Clean up residual material by washing area with water. Avoid creation of dusty conditions.

**Environmental and Regulatory Reporting:**

Do not flush to drain. If spilled on the ground, the affected area should be scraped clean placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterways. Large spills should be handled according to a predetermined plan. For assistance in developing a plan contact with the Technical Service Department using the Product Information phone number in Section 1.

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## 7. HANDLING AND STORAGE

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**Minimum/Maximum Storage Temperatures:**

Not Available

**Handling**

Do not get in eyes. Do not breathe dusts. Avoid direct or prolonged contact with skin.

**Storage**

Store in an area that is cool, dry, well-ventilated.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**Exposure Guidelines:**

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (AGGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

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**Eye / Face Protection:**

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

**Skin Protection:**

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

**Work Practice Controls:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

**Physical Appearance:**

White granules solid.

**Odor:**

Odorless

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## 9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

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**pH:**  
11.3 at 1 wt / wt %

**Specific Gravity:**  
2.53 at 20°C (68 F)

**Water Solubility:**  
Soluble  
7 Wt / Wt % at 25°C (77 F)

**Melting Point Range:**  
851°C (1564 F)

**Boiling Point Range:**  
Not Available

**Vapor Density:**  
Not Available

**Molecular Weight:**  
105.99

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## 10. STABILITY AND REACTIVITY

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**Chemical Stability:**  
This material is stable under normal handling and storage conditions described in Section 7.

**Conditions To Be Avoided:**  
Extreme Heat; Hygroscopic; protect from moisture. Mixing of acid and sodium carbonate solutions could cause CO<sub>2</sub> evolution.

**Materials / Chemicals To Be Avoided:**  
Aluminum  
Fluorine  
Humid Air  
Moisture  
Sulfuric Acid  
Acids  
Magnesium  
Phosphorus Pentoxide

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**10. STABILITY AND REACTIVITY (Continued)**

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**Decomposition Temperature Range:**

400°C (752 F)

**The Following Hazardous Decomposition Products Might Be Expected:**

**Decomposition Type:** Thermal

Carbon Dioxide

**Hazardous Polymerization Will Not Occur.**

**Avoid The Following To Inhibit Hazardous Polymerization:**

Not Applicable

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**11. TOXICOLOGICAL INFORMATION source <http://www.cdc.gov/niosh/rtecs/vz3dcc50.html>**

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**Acute Eye Irritation:**

**Toxicological Information and Interpretation**

Eye - Eye Irritation, 25 mg/Kg, Rabbit.

Severely Irritating; Muscle contraction or spasticity.

**Acute Skin Irritation:**

**Toxicological Information and Interpretation**

Skin - 500 mg/24 hour Skin Irritation, Rabbit.

Mildly Irritating.

**Acute Dermal Toxicity:**

LD<sub>50</sub>, Rabbit: >2000 mg/kg

**Acute Inhalation Toxicity:**

**Toxicological Information and Interpretation**

LC<sub>50</sub> - Lethal Concentration, 50% Of Test Species, 2300 mg/cu m/2hr, rat.

**Acute Oral Toxicity:**

**Toxicological Information and Interpretation**

LD<sub>50</sub> - Lethal Dose 50% Of Test Species, 4090 mg/kg, rat.

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**16. OTHER INFORMATION (Continued)**

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**CANADIAN WHMIS REGULATIONS**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS: H=2 F=0 R=0

**Key Legend Information:**

NAV	- Not Available
NAP	- Not Applicable
ND	- Not Determined
ACGIH	- American Conference of Governmental Industrial Hygienists
OSHA	- Occupational Safety and Health Administration
TLV	- Threshold Limit Value
PEL	- Permissible Exposure Limit
TWA	- Time Weighted Average
STEL	- Short Term Exposure Limit
NTP	- National Toxicology Program
IARC	- International Agency for Research on Cancer
WHMIS	- Workplace Hazardous Materials Information System

No warranty is expressed or implied regarding the accuracy of these data results to be obtained from the use thereof. Since the material may be utilized in applications beyond our control or with out our knowledge, no responsibility is assumed for the results of its use.