



**SODA ASH**  
**MATERIAL SAFETY DATA SHEET**

The following information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations of mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, person hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product.)

**For Information:** (914) 834-1881  
**In Emergency:** CHEMTREC (800) 424-9300

**Date Prepared:** Jan 5, 2010

**1. PRODUCT IDENTIFICATION**

- 1.1 Product Name:** SODA ASH
- 1.2 Chemical Name:** SODIUM CARBONATE, ANHYDROUS
- 1.3 Synonyms:** SODA DALT, SODA CRYSTAL, DISODIUM CARBONATE
- 1.4 Trade Names:** DENSE SODA ASH, CHEMICAL GRADE SODA ASH
- 1.5 Formal:** Na<sub>2</sub>CO<sub>3</sub>
- 1.6 Molecular Weight:** 105.99
- 1.7 CAS No.:** 0497-19-8

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENTS/FORMULA</b>	<b>CAS#</b>	<b>PERCENT</b>
Sodium carbonate- Na <sub>2</sub> SO <sub>3</sub>	0497-19-8	99.8%
Water-H <sub>2</sub> O	7732-18-5	.1%
Sodium Sulfate- Na <sub>2</sub> SO <sub>4</sub>	7757-82-6	.05%
Sodium Chloride-NaCl	7647-14-5	.05%

**3. HAZARD IDENTIFICATION**

- 3.1 Sodium carbonate is an odorless, white granular solid.**
- 3.2 Route(s) of Entry:** Inhalation? Yes Skin? Yes Ingestion? Yes
- 3.3 Effects of exposure:**

Aqueous solutions of sodium carbonate are alkaline and irritate digestive mucous membranes, eyes and health skin.

**Inhalation (dust):** May be irritating to the nose, throat, and respiratory tract. Repeated exposure may cause nose ulcers.

**Eyes (dust):** May cause mild irritation.

**Skin:** May cause skin irritation, seen as redness and swelling. In the presence of moisture or sweat, irritation may become more severe leading to rash.

**Ingestion:** May cause gastrointestinal irritation.

**4. FIRST AID MEASURES**

**4.1 First Aid:**

**Inhalation:** Remove subject to a dust free environment and blow nose. If breathing is difficult or has stopped, administer artificial respiration. If any irritation is present, seek medical attention.

**Eyes:**



**Recommendation:** In cases of splashing of concentrated solution in the eyes and face, treat the eyes first, then continue first aid as defined under “contact with the skin.”

**WITHOUT LOSS OF TIME:** Rinse the eyes with running water for 15 minutes, maintaining the eyelids wide open to eliminate the product. Protect the eyes from strong light. Consult a physician or ophthalmologist in all cases. Transport subject to a medical facility.

**Skin:** Remove shoes and contaminated clothing, under a shower if necessary. Wash the affected area with like warm water. Dry carefully. In case of persistent pain or reddening, consult a physician. Provide clean clothes.

**Ingestion:** DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Do not induce vomiting. Remove any evidence of the product from the person’s mouth. If the person is conscious and alert, give 8-12 ounces of water. SEEK MEDICAL ATTENTION.

**4.2 Medical Conditions Aggravated by Exposure:** Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate asthma or other chronic pulmonary diseases.

## **5. FIRE FIGHTING MEASURES**

**5.1 Flash Point:** Non combustible. Method: Not applicable.

**5.2 Auto-ignition Temperature:** Not Applicable.

**5.3 Flammability Limits: Upper & Lower Limit:** Non flammable.

**5.4 Fire Fighting Procedures:** Not applicable.

**5.5 Common Extinguishing Methods:** Not applicable.

## **6. ACCIDENTAL RELEASE MEASURES**

**6.1 Spills:** Shovel back into the original **dry**, uncontaminated container or waste receptacle. Flush area with water; contain runoff, dispose of waste in accordance with applicable federal, state, and local environmental laws and regulation.

## **7. HANDLING AND STORAGE**

**7.1 Handling:** Avoid prolonged or repeated contact with the skin or eyes. Do not wear contact lenses without proper eye protection when using this product. Avoid prolonged or repeated breathing of dusts. Use vacuum or wet mop to clean up dust.

**7.2 Storage:** Keep in closed, properly labeled container in a dry area away from acids. Protect from physical damage.

**7.3 For all operations:** DO NOT TAKE INTERNALLY.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Exposure Limits:** Control as particulate not otherwise classified (PNOC) ACGIH 1999-2000 TWA = 10mg/m<sup>3</sup>, OSHA PEL for nuisance particulates = 15 mg/m m<sup>3</sup>, for an 8 hour day.

**8.2 Ventilation:** In places with the possibility for creating dust, in excess of exposure limits, ventilation should be provided.

**8.3 Respiratory Protection:** In case of significant or accidental dust emissions, a NIOSH/MSHA approved dust mask should be worn.

**8.4 Protective Gloves:** Cotton gloves are adequate for routine handling of dry product.

**8.5 Eye Protection:** Wear safety glasses or goggles. In cases of significant dust, goggles are recommended.

**8.6 Other Protective Clothing or Equipment:** None.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 **Melting Point:** 8510C (1564°F).
- 9.2 **Boiling Point:** Not applicable.
- 9.3 **Specific Gravity** (H<sub>2</sub>O=1): 2.533 @25°C (77°F).
- 9.4 **Vapor Density** (air=1): Not applicable.
- 9.5 **Vapor Pressure:** Not listed.
- 9.6 **Solubility:** 33% maximum by weight in water.
- 9.7 **Decomposition Temperature:** Beginning at 400°C (752°F).
- 9.8 **Viscosity:** Not listed.
- 9.9 **PH:** 11.6 (1% solution)
- 9.10 **Other information:** Bulk Density: 62.0 lbs/ft<sup>3</sup>.

## 10. STABILITY AND REACTIVITY

- 10.1 **Stability:** Stable at ambient temperature and atmospheric pressure.
- 10.2 **Hazardous Decomposition Products:** Carbon dioxide (CO<sub>2</sub>) is evolved at very high temperatures (1000°C, 1832°F) or when mixed with acids.
- 10.3 **Conditions to Avoid:** Hygroscopic; protect from moisture. Mixing of acid and sodium carbonate solutions could cause CO<sub>2</sub> evolution and severe splattering.
- 10.4 **Materials and Substances to Avoid:** Reacts with strong acids. Under certain conditions, may react with Al, P<sub>2</sub>O<sub>5</sub>, F<sub>2</sub>, Li and 2, 4, 6-trinitrotoluene. Reacts with acids and releases large volumes CO<sub>2</sub> gas and heat. Soda ash and lime dust in the presence of moisture may form caustic soda, which may cause burns.

## 11. TOXICOLOGICAL INFORMATION

- 11.1 **Acute toxicity:** LD<sub>50</sub>-oral 4090 mg/kg species: rat. LC<sub>50</sub> -inhalation 2300 mg/m<sup>3</sup>/2h species: rat
- 11.2 **Chronic toxicity:** No data available.

## 12. ECOLOGICAL INFORMATION

- 12.1 **Irrigation of fields or vegetable gardens:** Less than 60 mg/l-no risk; between 60 mg/l and 130 mg/l – medium risk; more than 130 mg/l – risk for legumes of vegetable gardens, wheat, etc.
- 12.2 **CRUSTANEANS:** daphnia sp., LC 50, 48 hours, from 115 to 150 mg/l. **FISHES,** various species, LC 50, 96 hours, from 30 to 1,200 mg/l.

## 13. DISPOSAL CONSIDERATIONS

- 13.1 **Waste treatment:** Sodium Carbonate is not a listed hazardous waste under 40 CFR 261. However, state and local regulations for waste disposal may be more restrictive. It is local landfill operations approval.
- 13.2 **RCRA waste #:** Not listed.

## 14. TRANSPORT INFORMATION

- 14.1 **UN #:** Not listed. **NA #:** Not listed.
- 14.2 **TDG class:** Not Listed. **Label:** Not listed.
- 14.3 **DOT guide #:** Not listed.
- 14.4 **Hazard class:** Not listed.
- 14.5 **STCC #:** 28-123-22.

- 15. **Regulatory/Carcinogenicity Status:** **NTP:** None (1987) **IARC:** None(1990) **OSHA:** None (1987)



- 15.1** NFPA: Health – 1, Flammability –0, Reactivity –0, Special –NA **HMIS:** Health –1, Fire –0, Reactivity –0, Personal Protection –E **WHMIS:** D –2
- 15.2** **Regulatory/Carcinogenicity Status:** **NTP:** None (1987) **IARC:** None (1990) **OSHA:** None (1987)
- 15.3** **CERCLA RQ (40 CFR 302):** Not listed.
- 15.4** **SARA TITLE III 302 & 312 (40 CFR 355)** Extremely hazardous substance listing: Not listed
- 15.5** **SARA TITLE III 311 & 312 (40 CFR 370)** Hazardous Categories(product): **Fire: N Reactive: N Acute health: Y. Planning threshold: 10,000 lbs.**
- 15.6** **SARA TITLE III 313 (40 CFR 372) LISTED TOXIC CHEMICAL: NO REPORTING THRESHOLD: NA**
- 15.7** **USTSCA STATUS (CFR 40 710-712.3): YES**
- 16. OTHER INFORMATION**
- 16.1** The National Sanitation Foundation (NSF) recommends that the maximum usage level is 100 mg/l for potable water treatment.

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