



Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177  
Emergency Number: (800) 255-3924

## **Material Safety Data Sheet**

### **Section 1 – Chemical Product and Company Identification**

Catalog Numbers: S25539, S25539A  
Product Identity: Sodium Carbonate

**Chemical Family:** Not Applicable

**Synonyms:** Disodium carbonate; Soda ash; Carbonic acid, disodium salt

**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331  
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 07/20/12

Revision Date:

### **Section 2 – Hazard Identification**

#### **Emergency Overview**

Irritating to eyes and skin. May cause irritation of respiratory tract. May cause central nervous system effects. Hygroscopic.

**Appearance:** White solid **Odor:** Odorless

**Target Organs:** Eyes, skin, central nervous system

**Potential Health Effects/ Routes of Exposure:**

**Eyes:** May cause irritation.

**Skin:** May cause irritation.

**Ingestion:** May cause irritation, vomiting, nausea, diarrhea, central nervous system effects.

**Inhalation:** May cause irritation to the respiratory tract

**Chronic Effect / Carcinogenicity:** Experiments have shown reproductive toxicity effects on laboratory animals.

**Aggravated Medical Conditions** No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

### **Section 3 –Composition, Information on Ingredients**

Sodium Carbonate, CAS# 497-19-8, >95%

### **Section 4 – First Aid**

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops.

**Ingestion:** DO NOT induce vomiting. Get medical assistance.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Notes to Physician** Treat symptomatically.

### **Section 5 – Fire Fighting Measures**

**Flash Point:** Not Applicable

**Autoignition Temperature** No information available.

**Explosion Limits Upper** No data available      **Lower** No data available  
**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.  
**Unsuitable Extinguishing Media:** No information available  
**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.  
**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.  
**Hazardous Combustion Products:** No information Available  
**Sensitivity to mechanical impact** No information available.  
**Sensitivity to static discharge** No information available.  
**Specific Hazards Arising from the Chemical:** Thermal decomposition can lead to release of irritating gases and vapors.  
**NFPA Rating:** (estimated) Health: 2; Flammable: 0; Reactivity: 1

## **Section 6 – Accidental Release Measures**

**Personal Precautions** Use proper personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.  
**Environmental Precautions** Should not be released into environment  
**Methods for Containment and Clean Up** Absorb and containerize for disposal. Avoid generating dust. Always obey local regulations.

## **Section 7 – Handling and Storage**

**Handling:** Wash hands after handling. Avoid contact with skin and eyes. Do not breathe dust.  
**Storage:** Protect from freezing and physical damage.

## **Section 8 – Exposure Controls, Personal Protection**

Sodium Carbonate, CAS# 497-19-8, ACGIH TLV: NA, OSHA PEL: NA  
**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.  
**Personal Protection Equipment:** **Skin Protection:** Chemical resistant gloves.  
**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate.

## **Section 9 – Physical and Chemical Properties**

<b>Appearance/Physical State:</b> White solid	
<b>Odor:</b> Odorless	<b>% Volatility:</b> No Information Available
<b>Boiling Point:</b> 1600°C / 2912°F @ 760 mmHg	<b>Specific Gravity:</b> 2.53
<b>Melting Point:</b> 851°C / 1563.8°F	<b>Vapor Pressure:</b> No information available
<b>Vapor Density:</b> Not available	<b>Flash Point:</b> Not Applicable
<b>Evaporation Rate:</b> Not available	<b>Coefficient of water/oil distribution:</b> Not Available
<b>pH:</b> Not available	<b>Odor Threshold:</b> Not Available
<b>Flammability:</b> No Information Available	<b>Decomposition Temperature:</b> Not available
<b>Solubility:</b> Partly soluble in water	<b>Partition Coefficient n-octanol/water:</b> No data
available	
<b>Relative Density:</b> No Information Available	<b>Molecular Weight:</b> 105.99

## **Section 10 – Stability and Reactivity**

**Chemical Stability:** Hygroscopic.  
**Conditions to Avoid:** Incompatible materials, exposure to moisture, excess heat, dust formation  
**Incompatible Materials:** Strong oxidizers, strong acids, fluorine  
**Hazardous Decomposition Products:** Oxides of sodium, carbon monoxide, carbon dioxide  
**Hazardous Polymerization:** Does not occur  
**Hazardous Reactions:** None under normal processing.

## **Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

LD50 orl-rat: 4090mg/kg LC50 inhalation-rat: NA

**Irritation:** No Information Available

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

**Carcinogenicity** There are no known carcinogenic chemicals in this product

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Reproductive Effects** No Information available.

**Developmental Effects (Immediate/Delayed)** No information available.

**Teratogenicity** No information available.

**Other Adverse Effects** No information available.

**Endocrine Disruptor Information** No information available

**Section 12 – Ecological Information**

**Ecotoxicity:** Should not be released into environment

**Persistence and Degradability:** No Information Available

**Mobility:** No information available

**Bioaccumulation/ Accumulation:** No Information Available

**Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Section 14 – Transport Information**

**DOT – Not Regulated**

**Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** Not applicable

**Canada DSL:** These components are on Canada's DSL list.

**TSCA:** The components are listed on the TSCA Inventory

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Not Applicable

**WHMIS:** D2B

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.