

**MATERIAL SAFETY DATA SHEET  
FOR  
THORN SMITH LABORATORIES  
STUDENT REFERENCE STANDARDS AND REAGENT CHEMICALS**

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Sodium Carbonate  
Catalog Number 81-1075

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Manufacturer: Auric Enterprises, Inc.  
d/b/a Thorn Smith Laboratories  
Address: 7755 Narrow Gauge Road  
Beulah, MI 49617  
Phone Number: 231-882-4672  
MSDS Number: TSL-101  
Date Prepared: August 3, 1983  
Date Updated: March 21, 2008

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**SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

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COMPONENTS - Chemical Name & Common Names  
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

Sodium Carbonate

Common Synonyms: Soda Ash, Disodium Carbonate (Monohydrate)

Formula:  $\text{Na}_2\text{CO}_3$

Formula Weight: 105.99

CAS No.: 497-19-8

OSHA PEL: According to our sources, exposure threshold levels have not been established.  
(N/E).

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**SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS**

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Boiling Point: N/A

Specific Gravity ( $\text{H}_2\text{O}=1$ ): 2.53 ( )

Vapor Pressure (mm Hg and Temperature): N/A

Melting Point: 851° C (1564° F)

Vapor Density (Air-1): N/A

Evaporation Rate ( -1): N/A

Solubility in Water: Appreciable (more than 10%)

Water Reactive: No

Appearance and Odor: White powder or crystals. Odorless.

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### SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

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Flash Point and Method Used: N/A

Auto-Ignition Temperature: N/A

Flammability Limits in Air (% by volume): N/A

LEL: N/A UEL: N/A

Extinguisher Media: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire and Explosion Hazards: Toxic gases produced: oxides, carbon monoxide, carbon dioxide.

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### SECTION 4 - REACTIVITY HAZARD DATA

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STABILITY:  Stable  Unstable

Conditions to Avoid: Humidity

Incompatibility (Materials to Avoid): Strong acids, aluminum, fluoride, oxides of phosphorus, lithium.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION:  May Occur  Will Not Occur

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### SECTION 5 - HEALTH HAZARD DATA

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PRIMARY ROUTES OF ENTRY:

Inhalation  Ingestion  Skin Contact  Eye Contact  Not Hazardous

CARCINOGEN LISTED IN:

NTP  OSHA  IARC Monograph  Not Listed

TOXICITY: Sodium Carbonate: LD50 (ipr-mouse) 117 mg/kg.

HEALTH HAZARDS - Acute:

Inhalation: Inhalation of dust may cause irritation to upper respiratory tract and mucous membranes.

Ingestion: Large doses may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause irritation to mucous membranes.

Skin Contact: Contact may cause irritation.

Eye Contact: Contact may cause irritation.

HEALTH HAZARDS - Chronic: None identified.

Signs and Symptoms of Exposure: No information found.

Medical Conditions Generally Aggravated by Exposure: None identified.

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation, and support if necessary.

Inhalation: If a person breathes in large amounts, move the exposed person to fresh air. Get medical attention.

Ingestion: If swallowed, and the person is conscious, immediately give large amounts of water. Get medical attention.  
Skin Contact: Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.  
Eye Contact: Immediately flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally.

#### SARA/TITLE III HAZARD CATEGORIES AND LISTS

Acute: No    Chronic: No    Flammability: No    Pressure: No    Reactivity: No  
Extremely Hazardous Substance: No  
CERCLA Hazardous Substance: No  
SARA 313 Toxic Chemicals: No  
TSCA Inventory: Yes

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#### SECTION 6 - CONTROL AND PROTECTIVE MEASURES

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Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist.  
If airborne concentration is high, use and appropriate respirator or dust mask.  
Protective Gloves: Wear rubber gloves.  
Eye Protection: Wear chemical safety goggles.  
VENTILATION TO BE USED: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.  
 Local Exhaust     Mechanical (General)     Special  
 Other(Specify)  
Other Protective Clothing and Equipment: Wear clean body-covering clothing.  
Hygienic Work Practices: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

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#### SECTION 7 - PRECAUTIONS FOR SAFE HANDLING & LEAK/USE PROCEDURES

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Steps to be taken if material is spilled or released: Wear suitable protective clothing. Carefully sweep up and remove.  
Waste Disposal Methods: Dispose in accordance with all applicable local, state, federal environmental regulations.  
Precautions to be taken in handling and storage: Keep in a tightly closed container. Suitable for any general chemical storage area. Store in accordance with all applicable local, state, and federal environmental regulations.  
Other precautions and/or special hazards: No information available.  
NFPA Rating: No information available.  
HMIS Rating: No information available.

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## SECTION 8 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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### Domestic (D.O.T.)

Proper Shipping Name: Chemical, n.o.s. (Non-regulated)

### International (T.M.O.)

Proper Shipping Name: Chemical, n.o.s. (Non-regulated)

Marine Pollutants: No

### AIR (I.C.A.O.)

Proper Shipping Name: Chemical, n.o.s. (Non-regulated)

U.S. Customs Harmonization Number: 28362000002

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