

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

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Calcium Carbonate  
Catalog Number 81-1020

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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-106  
Date Prepared: September 8, 1989  
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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)

Calcium Carbonate

Common Names: Calcium Carbonate; Chalk, Marble, Limestone  
Formula:  $\text{CaCO}_3$   
CAS No.: 471-34-1  
OSHA PEL: TWA=15 mg/m<sup>3</sup> (total dust)  
ACGIH TLV: TWA=10 mg/m<sup>3</sup> (nuisance dust)  
OTHER LIMITS: N/A

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**SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS**

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Specific Gravity (H<sub>2</sub>O=1): 2.83  
Vapor Pressure (mm Hg and Temperature): N/A  
Melting Point: 825° C (1517° F)  
Density: 2.8  
Evaporation Rate (-1): N/A  
Solubility in Water: Insoluble; Soluble in Acid  
Water Reactive: No  
Appearance and Odor: White powder.

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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

Incompatibility (Materials to Avoid): Reaction with acid liberates CO<sub>2</sub>. Strong acids, fluorine, alum, ammonium salts.

Hazardous Decomposition Products: Oxides, 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

HEALTH HAZARDS - Acute:

Inhalation: Inhalation of nuisance dust may cause irritation to upper respiratory tract, nose, and throat.

Ingestion: Common dietary supplement

Skin Contact: Contact may cause irritation.

Eye Contact: Contact may cause irritation.

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. Never give anything by mouth to an unconscious person. 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. Get medical attention immediately.

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## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

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Respiratory Protection (Specify Type): A respirator with dust/mist filter is recommended. If airborne concentration exceeds TLV, a self-contained breathing apparatus is advised.

Protective Gloves: Wear protective 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 goggles while handling. 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. Isolate from incompatible materials. Protect against physical damage. Store in accordance with all applicable local, state, and federal environmental regulations.

NFPA Rating: Health: **0** Flammability: **0** Reactivity: **0**.

HMIS Rating: No information available.

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assume no liability resulting from its use. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.