

# **MATERIAL SAFETY DATA SHEET**

CALCIUM TURNS  
CAROLINA BIOLOGICAL

Revised: 05/15/08  
Replaces: 04/01/08  
Printed: 05/20/08

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## **1. PRODUCT DESCRIPTION**

Product Name: Calcium Metal Turnings  
Product Code(s): 85-1620  
Size: 125g  
Chemical Name: Calcium  
CAS Number: 7440-70-2  
Formula: Ca  
Synonyms: Does not apply  
Distributor: Carolina Biological Supply Company  
2700 York Road  
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)  
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Principal Hazardous Components: Calcium (CAS# 7440-70-2) 90-100%  
TLV and PEL units: None established

## **3. HAZARD IDENTIFICATION**

Emergency Overview: Avoid contact with skin. If in contact with skin, wash immediately with plenty of water.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## **4. FIRST AID MEASURES**

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

## **5. FIREFIGHTING PROCEDURES**

Flash Point(Method Used): No data available

NFPA Rating: Health: 3

Fire: 1

Reactivity: 2

Extinguisher Media: Smother with dry soda ash.

Flammable Limits in Air % by Volume: No data available

Autoignition Temperature: No data available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Reacts vigorously with water liberating and igniting Hydrogen.

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### **6. SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

### **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Keep container tightly closed. Store in cool, dry, well-ventilated area away from heat, sparks, or flame.

### **8. SPECIAL PROTECTION INFORMATION**

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust: Yes  
Mechanical(General): Yes  
Special: No  
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

### **9. PHYSICAL DATA**

Molecular Weight: 40.08

Melting Point: 842°C

Boiling Point: 1484°C

Vapor Pressure: 10 mmHg at 983°C

Vapor Density(Air=1): 1.4

Specific Gravity(H2O=1): 1.54 at 20°C/4°C

Percent Volatile by Volume: 0

Evaporation Rate(H2O=1): No data available

Solubility in Water: Reacts with water

Appearance and Odor: Silvery-white crystals

### **10. REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Moisture, heat, flame, other sources of ignition.

Incompatibility(Materials to Avoid): Water

Hazardous Decomposition Products: None identified

Hazardous Polymerization: Will not occur

### **11. TOXICITY DATA**

Toxicity Data: Not listed as causing cancer by NTP, IARC, or OSHA.

Effects of Overexposure:

Acute: See section 3  
Chronic: None identified

Conditions Aggravated by Overexposure: None identified

Target Organs: None identified

Primary Route(s) of Entry: Skin and eye contact

### **12. ECOLOGICAL DATA**

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EPA Waste Numbers: D003, Reactive waste

## 13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.  
Always contact a permitted waste disposer (TSD) to assure compliance.

## 14. TRANSPORT INFORMATION

Description: Calcium, 4.3, UN1401, II

## 15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name	Chemical List Category		
Calcium	No	No	No	No	No

## 16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

### Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists  
CAS Number..Chemical Abstracts Service Number  
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act  
DOT.....U.S. Department of Transportation  
IARC.....International Agency of Research on Cancer  
mppcf.....million particles per cubic foot  
N/A.....Not Available  
NTP.....National Toxicology Program  
OSHA.....Occupational Safety and Health Administration  
PEL.....Permissible Exposure Limit  
ppm.....parts per million  
RCRA.....Resource Conservation and Recovery Act  
SARA.....Superfund Amendments and Reauthorization Act  
TLV.....Threshold Limit Value  
TSCA.....Toxic Substances Control Act