ACC# 92524

# Section 1 - Chemical Product and Company Identification

MSDS Name: Calcium, Turnings, 99%

Catalog Numbers: AC365740000, AC365741000, AC365745000, S93154A, S93156A Synonyms: Calcicat; Calcium Metal.

**Company Identification:** Fisher Scientific

1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100 **Emergency Number: 201-796-7100** 

For CHEMTREC assistance, call: 800-424-9300 For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

#### **Chemical Name** Percent Calcium 99

**EINECS/ELINCS** 

231-179-5

Section 3 - Hazards Identification	

**EMERGENCY OVERVIEW** 

#### Appearance: silver white crystals. Danger! Reacts violently and/or explosively with water, steam or moisture. Dangerous when wet. Causes digestive

#### and respiratory tract irritation with possible burns. Can be explosive when exposed to heat or flames. May ignite or explode on contact with moist air. Causes eye and skin irritation and possible burns. Air sensitive.

Target Organs: Respiratory system, eyes, skin.

CAS#

7440-70-2

**Potential Health Effects** Eye: Causes redness and pain. Causes eye irritation and possible burns. Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. Causes redness

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. **Inhalation:** May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing,

wheezing, shortness of breath and pulmonary edema. May cause severe respiratory tract irritation and possible

medical aid. Do NOT allow vi ctim to rub eyes or keep eyes closed.

**Notes to Physician:** Treat symptomatically and supportively.

**Explosion Limits, Lower:** Not available.

atmosphere.

low.

Exposure Limits

**Chemical Name** Calcium

symptoms are experienced.

pH: Not available.

Vapor Pressure: 10 mm Hg @983 deg C

**Decomposition Temperature:** Not available.

Specific Gravity/Density:1.54@20°C/4°C

Vapor Density: Not available.

Solubility: Decomposes.

Molecular Formula:Ca Molecular Weight: 40.08

RTECS#:

LD50/LC50: Not available.

Carcinogenicity:

Other Studies:

No information available.

RCRA U-Series: None listed.

Packing Group:

**US FEDERAL** 

**Chemical Test Rules** 

Clean Water Act:

Section 12b

TSCA

CAS# 7440-70-2: EV8500000

**Epidemiology:** No information found Teratogenicity: No information found

Chronic: No information found.

Section 4 - First Aid Measures

and shoes. Wash clothing before reuse. Destroy contaminated shoes. Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid

give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing,

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water reactive. Material will react with water and may release a flammable

and/or toxic gas. This chemical poses an explosion hazard. Reacts with water to form explosive hydrogen gas. May

Extinguishing Media: Do NOT get water inside containers. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. DO NOT USE WATER OR FOAM. For small fires, use dry chemical, soda ash, lime or sand. For large fires, use dry sand, dry chemical, soda ash or lime or withdraw

from area and let fire burn. Flash Point: Not applicable. Autoignition Temperature: Not applicable.

ignite or explode on contact with steam or moist air. May re-ignite after fire is extinguished.

General Information: Use proper personal protective equipment as indicated in Section 8.

**Upper:** Not available. NFPA Rating: (estimated) Health: 3; Flammability: 1; Instability: 2; Special Hazard: -W-Section 6 - Accidental Release Measures

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective

Equipment section. Avoid generating dusty conditions. Do not expose spill to water. Place under an inert

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Handle under an inert atmosphere. Store protected from air. Keep from contact with moist air and steam. Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Do not expose to air. Store protected from moisture. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations

**NIOSH** 

none listed

**OSHA - Final PELs** 

none listed

## OSHA Vacated PELs: Calcium: No OSHA Vacated PELs are listed for this chemical. **Personal Protective Equipment** Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other

Section 9 - Physical and Chemical Properties

Section 10 - Stability and Reactivity

Chemical Stability: Combines vigorously or explosively with water. May ignite spontaneously if exposed to air or

Physical State: Crystals Appearance: silver white Odor: none reported

**ACGIH** 

none listed

protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Evaporation Rate: Not available. Viscosity: Not available. Boiling Point: 1484 deg C Freezing/Melting Point:845 deg C

kept in the presence of moisture. Conditions to Avoid: Dust generation, exposure to air, excess heat, exposure to moist air or water. Incompatibilities with Other Materials: Acids, oxidizing agents, carbonates, dinitrogen tetraoxide, halogens, sulfur, chlorine, chlorine trifluoride, fluorine, air, moisture, water, water and mixtures containing water (e.g. aqueous solutions, water). Hazardous Decomposition Products: Irritating and toxic fumes and gases, hydrogen gas, calcium oxide, calcium hydroxide. Hazardous Polymerization: Will not occur. Section 11 - Toxicological Information

CAS# 7440-70-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

### Reproductive Effects: No information found Mutagenicity: No information found **Neurotoxicity:** No information found

Section 12 - Ecological Information

Section 14 - Transport Information

Section 15 - Regulatory Information

**Canada TDG** 

No information available.

**Shipping Name: Hazard Class: UN Number:** 

**Health & Safety Reporting List** 

None of the chemicals in this material have a SNUR under TSCA.

California Prop 65

CAS# 7440-70-2: 1 Canada - DSL/NDSL

California No Significant Risk Level: None of the chemicals in this product are listed.

sand (never use water). WGK (Water Danger/Protection)

any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages,

Section 13 - Disposal Considerations Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed.

**US DOT** 

CALCIUM

4.3

UN1401

II

None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule

This material does not contain any Class 2 Ozone depletors. None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA.

F Risk Phrases: R 15 Contact with water liberates extremely flammable gases.

**European/International Regulations European Labeling in Accordance with EC Directives** 

None of the chemicals in this product have a TPQ. **SARA Codes** CAS # 7440-70-2: immediate, fire. Section 313 No chemicals are reportable under Section 313. Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors.

CAS# 7440-70-2 is listed on the TSCA inventory.

CERCLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances

None of the chemicals are on the Health & Safety Reporting List.

None of the chemicals in this product are under a Chemical Test Rule.

**Safety Phrases:** S 24/25 Avoid contact with skin and eyes.

CAS# 7440-70-2 is listed on Canada's DSL List. Canada - WHMIS WHMIS: Not available.

howsoever arising, even if Fisher has been advised of the possibility of such damages.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for

None of the chemicals in this product are listed as Toxic Pollutants under the CWA. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. STATE CAS# 7440-70-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

**Hazard Symbols:** 

S 8 Keep container dry. S 43C In case of fire, use limestone powder, sodium chloride or dry

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 12/03/2002 Revision #3 Date: 3/15/2007