

**1. PRODUCT AND COMPANY IDENTIFICATION**

Southern Agricultural Insecticides, Inc.  
P.O. Box 218  
Palmetto, FL 34220

CHEMTREC (24-Hr Emergency Response):  
U.S. Toll Free (800) 424-9300  
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**Product Name:** Stop Blossom End Rot  
**Synonyms:** Liquid Calcium Chloride, Calcium dichloride  
**Chemical Formula:** CaCl<sub>2</sub>  
**CAS Number:** 10043-52-4  
**Recommended Use:** Prevents tomatoes blossom-end rot due to Calcium deficiency

**2. HAZARDS IDENTIFICATION**

**HMIS Ratings:** (Scale 0-4) Health: 1 Fire: 0 Reactivity: 0

**Signal Word:** Warning  
**Classification:** Irritating to eyes  
**Hazard Statement:** Causes serious eye irritation



**EMERGENCY OVERVIEW:** May cause irritation to skin, eyes and respiratory tract. Harmful if swallowed or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping.

**Primary Routes of Exposure:** Skin and or eye contact. Ingestion. Inhalation.

**Potential Acute Health Effects:**

**Eye Contact:** May irritate or burn eyes.  
**Skin Contact:** May cause skin irritation.  
**Inhalation:** Mist inhalation may irritate nose, throat, and lungs. May cause nosebleeds  
**Ingestion:** May irritate gastrointestinal tract and cause nausea and vomiting.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>CAS Number</u>	<u>Wt. %</u>	<u>Ingredient Name</u>
10043-52-4	31	Calcium Chloride

**4. FIRST AID MEASURES**

**Ingestion:** DO NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Obtain medical advice if necessary.  
**Skin Contact:** Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.  
**Eye Contact:** Flush eyes promptly with water, continuing for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.  
**Inhalation:** Remove from exposure. If breathing is difficult or irritation develops, seek medical attention.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media:** This product is non-flammable.  
**Fire and Heat Explosion Hazard:** N/A  
**Products of Combustion:** Non-combustible  
**Special Fire fighting Procedures:** Avoid breathing corrosive vapors, keep upwind. Dike area to prevent runoff and contamination of water sources.

## 6. ACCIDENTAL RELEASE MEASURES

**Evacuation and Safety:** Wear appropriate protective gear for the situation. See personal protection information in Section 8. Isolate area. Keep authorized personnel from entering the area. Use appropriate safety equipment.

**Containment / Clean Up of Spill:** Dike the spilled liquid, and either pump back into original container or cover with sand or clay-type substance for absorption. Wash the spillage area with large quantities of water. Spilled material may cause a slipping hazard.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and breathing vapors or mists. Wash thoroughly after handling. Launder contaminated clothing before reuse.

**Storage:** Observe all federal, state, and local regulations when storing this product. Store at ambient temperature in a tightly closed container away from incompatible materials. Do not store in metals which this solution corrodes.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.

**Exposure Limits:** ACGIH-(TLV-TWA) Guideline for nuisance particulate (liquefied mist): 10 mg/m<sup>3</sup>

### Personal Protective Equipment (PPE)

**Eyes:** Wear Safety glasses with splash shields or safety goggles/shields.

**Hands and Feet:** Wear appropriate non-leather protective gloves and boots.

**Body:** Wear appropriate normal work clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.

**Respiratory:** Respirator not generally required. For misty conditions, wear NIOSH approved mist respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light blue green liquid.	<b>Vapor Pressure:</b>	N.E.
<b>Odor:</b>	Odorless	<b>Vapor Density (Air=1):</b>	N.E.
<b>Odor Threshold:</b>	Not Established	<b>Specific Gravity (H2O=1):</b>	1.376 @ 25°C (77°F) for 38 solution
<b>pH:</b>	3.8-9.0	<b>Water Solubility:</b>	Complete
<b>Boiling Point:</b>	118°C (244° F)	<b>Partition Coefficient:</b>	N.E.
<b>Flash Point:</b>	N/A Inorganic Substance	<b>Freezing Point:</b>	N.E.
<b>Upper/Lower Flammability Limits:</b>	N/A	<b>Auto-Ignition Temperature:</b>	N/A
<b>Evaporation Rate:</b>	N.E.	<b>Decomposition Temperature:</b>	N.E.
<b>Flammability:</b>	non-flammable	<b>Viscosity:</b>	N.E.

## 10. STABILITY AND REACTIVITY

**Stability and Reactivity:** Stable under normal temperatures and pressures. Hygroscopic substance

**Possibility of hazardous reactions:** None at normal use.

**Incompatibilities:** Strong oxidizing agents.

**Hazardous Decomposition:** None at normal use. If liquid completely dries from fire, thermal decomposition products may include toxic and corrosive fumes of chlorine and hydrogen chloride. Product may react with some metals (aluminum, zinc, tin, etc.) to release flammable hydrogen gas.

**Polymerization:** Does not occur under normal temperatures and pressures.

**Conditions to Avoid:** Humidity and moisture (calcium chloride is hygroscopic)

## 11. TOXICOLOGICAL INFORMATION

### Toxicity Data:

#### Anhydrous Calcium Chloride:

TD<sub>LO</sub>: 112/kg, oral, 20 weeks, rat

LD<sub>LO</sub>: 274 mg/kg, subcutaneous, dog

LD<sub>50</sub>: 1000 mg/kg, oral, rat

LD<sub>50</sub>: 264 mg/kg, intraperitoneal, rat

Moderately toxic by ingestion. Slightly toxic by dermal absorption.

**Carcinogen Status:** OSHA - No                      NTP - No                      IARC - No

## 12. ECOLOGICAL INFORMATION

Product will not biodegrade or bioaccumulate.

## 13. DISPOSAL INFORMATION

**Pesticide Disposal:** If recycling or re-use is not practicable, observe all federal, state, and local regulations when disposing of this substance.

**Container Disposal:** Where possible, recycling is preferred to disposal or incineration. Clean container with water, dispose of rinse water in accordance with local regulations.

## 14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

**UN Identification Number:** Not DOT Regulated

**UN Proper Shipping Name:** N/A

**Hazard Class or Division:** N/A

**Packing Group:** N/A

**Marine Pollutant:** N/A

## 15. REGULATORY INFORMATION

### SARA Title III:

Section 302/304            This product does not contain ingredients listed as an Extremely Hazardous Substance.

Immediate (Acute) Health Hazard:                      YES

Delayed (Chronic) Health Hazard:                      No

Section 311/312            Fire Hazard:    No

Reactive Hazard:    No

Sudden Release of Pressure Hazard:                      No

Section 313            This product does not contain ingredients (at a level of 1 or greater) on the List of Toxic Chemicals.

## OTHER REGULATORY INFORMATION

**TSCA Status:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

**California Proposition 65:** This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition .

## 16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.