



Product: BLOSSOM-END ROT SPRAY
EPA Reg. No.: N/A
Effective Date: 01/01/2000

MATERIAL SAFETY DATA SHEET
Emergency Phone 800/535-5053

Size	Product Number	UPC Code
Pint	14816	0 49424 14816 5

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. COMPOSITION/INFORMATION ON INGREDIENTS:

Calcium chloride	CAS# 010043-52-4	77-80%
Sodium chloride	CAS# 007647-14-5	1-2%
Potassium chloride	CAS# 007447-40-7	2-3%
Water	CAS# 007732-18-5	

2. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	White to off-white solid
ODOR:	None
MELTING POINT:	Approximately 375°F (175°C)
BOILING POINT:	375°F (175°C)
VAPOR PRESSURE:	1.0 mmHg @ 68°F (20°C)
VAPOR DENSITY:	Not applicable
SOLUBILITY (WATER):	Very Soluble
SPECIFIC GRAVITY:	1.85

3. EMERGENCY & FIRST AID PROCEDURES:

EYES: Causes eye irritation. May cause slight eye irritation. Dusts may cause severe irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns. **Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.**

SKIN: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp or if material is confined to skin. May cause more severe response if skin is abraded (scratched or cut). When dissolving, the heat produced may cause more intense effects as well as thermal burns. Not classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. **Wash off in flowing water or shower.**

INGESTION: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. **If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.**

INHALATION: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract. **Remove to fresh air if effects occur. Consult a physician.**

SYSTEMIC & OTHER EFFECTS: No relevant information found.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.



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4. FIRE & EXPLOSION HAZARD DATA:

FLASH POINT: Not applicable
METHOD USED: Not applicable
FLAMMABLE LIMIT (LOWER): Not applicable
FLAMMABLE LIMIT (UPPER): Not applicable
HAZARDOUS COMBUSTION PRODUCTS: Not applicable
EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.
FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and full protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

5. ACCIDENTAL RELEASE MEASURES:

PROTECT PEOPLE: Isolate area. Avoid contact with eyes and skin. May be a slipping hazard. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment. For additional information, refer to "Exposure Controls/Personnel Protection," MSDS Section 7.
PROTECT THE ENVIRONMENT: For small spills: Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. For large spills: Avoid contamination of drinking water, natural water, ground water or any waterway. Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.
CLEANUP: For small spills: Contain spill if possible. Collect material in a suitable and properly labeled container. Flush residue with plenty of water. For large spills: Dike and transfer to suitable and properly labeled containers. Flush residue with plenty of water.

6. HANDLING AND STORAGE:

HANDLING: Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80F, 27C).
STORAGE: Keep containers tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION:

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
PERSONAL PROTECTIVE EQUIPMENT
EYE/FACE PROTECTION: Use safety glasses. For dusty operations or when handling solutions of the material, wear chemical goggles.
SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron or full-body suit will depend on operation. If skin comes in contact with contaminated clothing, remove the clothing immediately, wash skin area with soap and water and launder clothing before reuse. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.



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RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

EXPOSURE GUIDELINES: Calcium chloride: Vendor IHG is 10 mg/m3.
Sodium chloride: Vendor IHG is 10 mg/m3.
Potassium chloride: Vendor IHG is 10 mg/m3.

8. STABILITY AND REACTIVITY DATA:

CHEMICAL STABILITY: Stable. Hygroscopic.
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY WITH OTHER MATERIALS: Corrosive to some metals. Avoid contact with metals such as: brass, mild steel, aluminum, or ferrous metals. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid. Heat is generated when mixed with water. Spattering or boiling can occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not decompose.
HAZARDOUS POLYMERIZATION: Will not occur.

9. TOXICOLOGICAL INFORMATION:

ACUTE SKIN: The LD50 for skin absorption in rabbits is > 5000 mg/kg for CaC12.
ACUTE INGESTION: The LD50 for skin absorption in rabbits is > 5000 mg/kg for CaC12 (100% basis).
MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): For CaC12, in vitro mutagenicity studies were negative.

10. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE
MOVEMENT & PARTITIONING: Partitioning from water to n-octanol is not applicable.
DEGRADATION & PERSISTENCE: Biodegradation is not applicable.
ECOTOXICOLOGY: Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

11. DISPOSAL CONSIDERATIONS:

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator. THE VENDOR CHEMICAL COMPANY HAS NOT CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 1 "COMPOSITION/INFORMATION ON INGREDIENTS."

FOR UNUSED & UNCONTAMINATED PRODUCT:

The preferred options include sending to a licensed, permitted: reclaimer, landfill, or waste water treatment system.



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- 12. TRANSPORTATION INFORMATION:**
UNITED STATES DOT INFORMATION: This product is not regulated by D.O.T. when shipped domestically by land.
CANADIAN TDG INFORMATION: This product is not regulated by T.D.G. when shipped domestically by land.
- 13. REGULATORY INFORMATION:**
REGULATORY INFORMATION: (Not meant to be all-inclusive -- selected regulations represented).
NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.
- SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.
- SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
An immediate health hazard - This product has been categorized as an "immediate health hazard" due to the possibility of eye or skin irritation.
- TOXIC SUBSTANCES CONTROL ACT (SCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.
The CAS number(s) for TSCA is(are):
CAS#: 010043-52-4
CAS#: 007647-14-5
CAS#: 007732-18-5
- STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of: New Jersey and Pennsylvania.
- OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product has been categorized as a "Hazardous Chemical" due to the possibility of eye or skin irritation.
- DEPARTMENT OF TRANSPORTATION: This product is not regulated by D.O.T. when shipped domestically by land.
- COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, OR SUPERFUND): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.
- CANADIAN REGULATIONS: WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is: D2B - eye or skin irritant. Refer elsewhere in the MSDS for specific warnings and safe handling information.
- CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.



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HAZARDOUS PRODUCTS ACT
INFORMATION:

This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure Lists (Canadian HPA Section 13 and 14):

COMPONENTS:

Calcium Chloride CAS#: 010043-52-4 Amount (%w/w): 77-80%

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate as of the effective date given above, Green Light makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Green Light's control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication or use of, or reliance upon, information contained herein does not relate to the use of this product in combination with any other material or in any other process.