



SAFETY DATA SHEET

Trade name: Enz-Rot Blossom End Rot Spray
Product No: 2840,6422 Print date: 5/21/2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Enz-Rot Blossom End Rot Spray **Product Number:** 2840, 6422

Product Use: Disease Control

Manufacturer Name and Address: Gardens Alive 230 Mary Ave., Greendale IN 47025
Product Information: (513) 354-1483

Emergency Phone Number (Poison Control): 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

NFPA HAZARD RATINGS	No.	0 Least
Health	1	1 Slight
Flammability	0	2 Moderate
Reactivity	0	3 High
		4 Severe

Hazardous Components (Specific Chemical Identity):	CAS #	Amount
Calcium Chloride	10043-52-4	28.0 – 42.0 %
Potassium Chloride	7447-40-7	0.0 – 3.0 %
Sodium Chloride	7647-14-5	0.0 – 2.0 %
Water	7732-18-5	

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product Name: Calcium Chloride Solution

Signal Word: WARNING! Causes eye irritation. Prolonged exposure may cause skin burns.
Slipping hazard. Isolate area.

Pictogram:



Routes of Entry:	Eye, skin, inhalation, ingestion
Acute & Chronic Health Hazards:	None, not a hazard
Eye:	May cause eye irritation
Skin:	Not a hazard; unlikely.
Inhalation:	Not a hazard.
Carcinogenicity:	NTP – no; IARC Monographs – no; OSHA Regulated - no



SAFETY DATA SHEET

Trade name: Enz-Rot Blossom End Rot Spray

Product No: 2840,6422 Print date: 5/21/2019

SECTION 3. HAZARDOUS INGREDIENTS / INDENTITY INFORMATION

Calcium Chloride Solution

SECTION 4: FIRST AID MEASURES

- Eyes:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes. Then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
- Skin Contact:** Wash skin with plenty of water.
- Inhalation:** Mist may cause irritation of upper respiratory tract (nose and throat).
- Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

SECTION 5: FIREFIGHTING MEASURES

- Extinguishing Media:** This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.
- Special Firefighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray.

Unusual Fire and Explosion Information:

None required

Flash Point And Method:

Closed Cup – not required

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Or Leak Procedures: In case of spillage, collect lures, seal in foil (or other suitable material) container, and remove..

Other Precautions: None

SECTION 7: HANDLING AND STORAGE

Waste Disposal Method: Dispose of according to local, state, federal regulations.

Handling And Storage: Do not open packaging until time of use. Do not eat or drink when handling the product. Wash hands thoroughly after handling. Store in cool dry conditions. The product may be kept in freezer.



SAFETY DATA SHEET

Trade name: Enz-Rot Blossom End Rot Spray

Product No: 2840,6422 Print date: 5/21/2019

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation: None required

Protective Gloves: None necessary.

Eye Protection: None necessary but recommended as good practice.

Work/Hygiene Practices: Good personal hygiene practices should be used.

Other Protective Clothing: None necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, odorless liquid

Odor: odorless

Spec Gravity: 1.275 – 1.439 Literature

Boiling Point: 110 -122oC (230 – 252o F) Literature

Vap. Pres: 9 – 15 mmHg @ 25oC Literature

Vap Dens: Literature same as water

Evap Rate: Not required

% Volatile By Volume: Not required

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility: None

Hazardous Decomposition or By-Products: Does not decompose

Hazardous Polymerization: Will not occur.



SAFETY DATA SHEET

Trade name: Enz-Rot Blossom End Rot Spray

Product No: 2840,6422 Print date: 5/21/2019

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion: For the major component: LD50, Rat: 900 – 2100 mg/kg

Skin Absorption: For the major component: LD 50, Rabbit: > 5,000 mg/kg

Genetic Toxicology: The data presented are for the following material calcium chloride or CaCl₂. In vitro genetic toxicity studies were negative. The data presented are for the following material potassium chloride. In vitro genetic toxicity studies were positive. However, the relevance of this to humans is unknown.

SECTION 12: ECOLOGICAL INFORMATION

CHEMICAL FATE

Calcium chloride Movement & Partitioning: No bioconcentration is expected because of the relatively high water solubility. Partitioning from water to n-octanol is not applicable.

Persistence & Degradability: Biodegradation is not applicable.

Potassium chloride Movement & Partitioning: Partitioning from water to n-octanol is not applicable.

Persistence & Degradability: Biodegradation is not applicable.

Sodium chloride Movement & Partitioning: No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50).

Partitioning from water to n-octanol is not applicable.

Persistence & Degradability: Biodegradation is not applicable.

ECOTOXICITY

Calcium chloride Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity: LC50, bluegill (*Lepomis macrochirus*): 8,350 – 10,650 mg/L; LC50, mosquito fish (*Gambusia affinis*): 13,400 mg/L

Aquatic Invertebrate Acute Toxicity: LC50, water flea *Daphnia magna*: 759 – 3,005 mg/L

Toxicity to Micro-organisms: EC50, activated sludge, respiration inhibition: >1000 mg/L

Potassium chloride Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity: LC50, rainbow trout (*Oncorhynchus mykiss*): 4,236 mg/L.

Aquatic Invertebrate Acute Toxicity: EC50, water flea *Daphnia magna*, immobilization:

590mg/L LC 50, water flea *Ceriodaphnia dubia*: 3,470 mg/L

Sodium chloride Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100

mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity: LC50, fathead minnow (*Pimephales promelas*): 10,610 mg/L

Aquatic Invertebrate Acute Toxicity: LC50, water flea *Daphnia magna*: 4,571 mg/L

LC50, water flea *Ceriodaphnia dubia*: 924 – 4,205 mg/L Toxicity to Micro-organisms: IC50, OECD 209

Test; activated sludge, respiration inhibition: > 1,000 mg/L EC50, activated sludge, respiration inhibition: >1,000 mg/L

Personal Precautions: Spilled material may cause a slipping hazard. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For



SAFETY DATA SHEET

Trade name: Enz-Rot Blossom End Rot Spray

Product No: 2840,6422 Print date: 5/21/2019

additional information, refer to section 6, Personal Protection & Precautions.

SECTION 13: DISPOSAL CONSIDERATION

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Vendor has no 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. Composition Information. For Unused & Uncontaminated Product. The preferred options include sending to a licensed, permitted reclaimer or waste water treatment system.

Handling and Storing: General Handling: Product shipped/handled hot can cause thermal burns. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. See section 6, Personal

Protection and Precautions. Keep container closed. Product may become a solid at temperatures below 9°C (32°F) (concentrations above 36% calcium chloride).

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

DOT Non-Bulk: Not Regulated

DOT Bulk: Not Regulated

IMDG: Not Regulated

ICAO/IATA: Not Regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments & Reauthorization Act of 1986 Title III (Emergency Planning & Community right-to-Know Act of 1986) Sections 311 and 312 Immediate (Acute) Health Hazard Yes

Delayed (Chronic) Health Hazard No

Fire Hazard No

Reactive Hazard No

Sudden Release of Pressure Hazard No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313. To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.



SAFETY DATA SHEET

Trade name: Enz-Rot Blossom End Rot Spray

Product No: 2840,6422 Print date: 5/21/2019

Pennsylvania (Worker and Community right-to-Know Act): Pennsylvania hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

SECTION 16: OTHER INFORMATION

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the manufacturer's knowledge and belief, accurate and reliable as of the date of the preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the manufacturer shall not be liable for any loss or damage arising out of the use thereof. In addition, the manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

NOTICE: How this product is used is very important and beyond the control of the seller. The buyer assumes all risks for any use beyond those described on the label or for any use under abnormal conditions.