



BioWorks®

CEASE®

Revision Date: February 12, 2013

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name:	CEASE®	Synonyms:	Not Applicable
Product Use:	Fungicide / Bactericide		
Manufacturer:	Bayer CropScience LP	Distributor:	BioWorks, Inc.
Address:	1540 Drew Avenue Davis, California 95618, USA	Address:	100 Rawson Road, Suite 205 Victor, New York 14564, USA
Telephone:	1.530.750.0150	Telephone:	1.800.877.9443
Emergency Phone: (CHEMTREC)	In USA call CHEMTREC 24-hour toll-free hotline at 1.800.424.9300 Outside USA, call 1.703.527.3887 (collect calls accepted)		

2. HAZARDS IDENTIFICATION

Emergency Overview: This preparation is not considered to be hazardous to humans or the environment. Product has very low toxicity via ingestion, skin contact, or inhalation.

Possible Routes of Entry: Inhalation, eyes, and skin

Potential Health Effects from Over-exposure:

Skin/ Eye Irritation: Direct contact with skin or eyes may cause mild irritation in some individuals.

Inhalation: Inhalation of spray mist may cause respiratory tract irritation in some individuals.

Section 2 Notes: In the unlikely event that over-exposure occurs, follow first aid measures in section 4.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:	CAS No.	Percent
Bacillus subtilis strain QST 713	Not Applicable	1.34% (Nominal)
Mixture of inert, non-reactive ingredients	Not Applicable to mixtures	98.66%

Section 3 Notes: This preparation contains no hazardous substances per Directive 67/548/EEC.

4. FIRST-AID MEASURES

General: Remove from source of exposure. If irritation or other signs of toxicity occur, seek medical attention.

Eyes: Hold eye open and rinse slowly and gently with plenty of water for at least 15 minutes. If present, remove contact lenses and continue rinsing eye.

Skin: Remove contaminated clothing. Thoroughly wash skin with plenty of soap and water.

Inhalation: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration.

Ingestion: Call a doctor immediately if a large amount is swallowed. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

Note to Physicians and First Aid Providers: This product has low oral, dermal, and inhalation toxicity. Direct contact with eyes may cause temporary irritation. Provide symptomatic and supportive care as necessary.

5. FIRE-FIGHTING MEASURES

General: Use methods and protective gear that are appropriate for the conditions and size of the fire.

Extinguishing Media: Use appropriate media for underlying cause and combustibles involved in the fire.

Special Equipment: Self-contained breathing apparatus and full protective gear according to the conditions and size of the fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing such as long-sleeved shirt, pants, waterproof gloves and shoes with socks.

Methods for Clean Up: Carefully mop or sweep up spill and place in a closed container for disposal. Rinse area with water.

Section 6 Notes: Refer to section 8 for personal protection and section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling: Use handling procedures that minimize exposure to the product.

Storage: Store in a cool, dry, well-ventilated place in original container. Keep container closed when not in use. Do not contaminate other pesticides, fertilizers, water, or feed by storage or disposal.

Section 7 Notes: Avoid contact with skin, eyes and clothing. Avoid inhalation of spray mist. Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking or using the toilet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General: Protective clothing should be selected according to the conditions likely to be encountered in the workplace. Ensure good ventilation. No exposure limits have been established.

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to reduce airborne exposure at locations/operations where spray mist may be generated.

Personal Protective Equipment:

Respiratory: Not normally required. However, if needed, use a dust/mist filtering face mask or respirator.

Eyes and Face: Chemical safety goggles or safety glasses with side shields.

Hands/Skin: Gloves made from chemically resistant material such as neoprene, vinyl, rubber, or nitrile.

Other Clothing: Wear suitable protective clothing such as long-sleeved shirt, pants, and shoes with socks.

Hygienic Practices: Wash hands and exposed skin before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light to medium brown aqueous dispersion
Odor:	Sweet, earthy odor
Melting Point:	Approximately 0° C (32° F)
Boiling Point:	≥ 100° C (≥ 212° F)
Density:	1.0 – 1.3 g/cm ³
Solubility in Water:	Dispersible in water
pH as Supplied:	4.8 – 6.0

10. STABILITY AND REACTIVITY

Stability: Stable, material is non-reactive.

Conditions to Avoid: None that are known.

Materials to Avoid: None that are known.

Hazardous Decomposition Products: None that are known.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Possible Routes of Entry: Inhalation, eyes, and skin

Potential Health Effects from Over-exposure

Skin/ Eye Irritation: Direct contact with skin or eyes may cause slight to mild irritation in some individuals.

Inhalation: Inhalation of spray mist may cause respiratory tract irritation in some individuals.

Acute studies on a similar formulation:

Acute Oral LD50 (Rat):	> 5,000 mg/kg	Eye Irritation (Rabbit):	Nonirritant
Acute Dermal LD50 (Rabbit):	> 5,000 mg/kg	Dermal Irritation (Rabbit):	Nonirritant
Acute Inhalation LD50 (Rat):	> 1.4 mg/L (Limit test)*		

Section 11 Notes: None of the components of this product are listed as carcinogenic by NTP, IARC, or OSHA.

* No deaths or toxic effects were observed in the test animals during the study period.

12. ECOLOGICAL INFORMATION

Ecological Information: With regard to environmental fate and behavior this product is not expected to impose any environmental risk.

Ecotoxicity Information: It can be concluded from test results with the technical active ingredient in aquatic vertebrates and invertebrates, and in various terrestrial vertebrates and invertebrates that this product is non-toxic to the species tested is not expected to impose any environmental risk.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL: For 1.0-gallon, 2.5-gallon, 3-gallon, or 5-gallon plastic containers – Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

Land: ADR / RID Class: Not controlled under ADR (Europe)

Water: IMDG Class: Not controlled under IMDG

Air: IATA – DGR Class: Not controlled under IATA

Other: U.S. DOT: Not Regulated

Freight Classification: Insecticides, Fungicides N.O.I., Other Than Poisons. NMFC 155050 Class 60

Canadian TDG: Not Regulated under Canadian Transport of Dangerous Goods Regulations

15. REGULATORY INFORMATION

UNITED STATES: Registered as a pesticide product. (EPA Reg. No. 264-1155-68539)

This pesticide product is registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other information, including direction for use.

CAUTION

Direct contact with skin or eyes may cause mild irritation.

Inhalation of spray mist may cause respiratory tract irritation.

Labeling According to EC Directives:

Symbol: Not Required

R-phrases: Not Required

S-phrases: S 2 Keep out of reach of children

(Recommended) S 20/21 When using do not eat, drink or smoke

S 24/25 Avoid contact with skin and eyes

S 29/35 Do not empty into drains; dispose of this material and its container in a safe way

U.S. EPA SARA: No acute or chronic health hazards. No fire, release of pressure, or reactivity hazards. (Title III Classification)

CANADA: Registered as a pesticide product. (PCP No. 30522)

16. OTHER INFORMATION

CONTACT: BioWorks, Inc.
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