

MATERIAL SAFETY DATA SHEET

Serenade® Revision Date: February 21, 2001

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Product Name: Serenade®

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 For emergencies such as leaks or spills call CHEMTREC 24-hour
 toll-free hotline at 1-800-424-9300

Trade names/ Synonyms: QST 713 Organic WP
 EPA Registration Number: 69592-7
 Primary Hazards: None known

SECTION 1: MATERIAL IDENTIFICATION

INGREDIENT 1

Common Name: QST 713 strain of dried *Bacillus subtilis*
 Chemical Name: Not applicable
 Molecular Formula: Not applicable
 CAS Number: Not applicable
 Percent: 10 % nominal

OTHER INGREDIENTS: inert, non-reactive

SECTION 2: PHYSICAL DATA

Boiling Point: Not applicable
 Melting Point: Not applicable
 Density: 28 Lb/ft³ or 0.45 gram/cc
 Solubility in Water: Dispersible in water
 Appearance: powder
 Color: light to medium brown
 Odor: sweet, earthy odor

SECTION 3: FIRE AND EXPLOSION DATA

Flash Point: Not flammable
 Method: Not applicable
 Extinguishing Media: Use extinguishing media appropriate for the surrounding fire
 Special Fire Fighting Procedures: None
 Unusual Fire and Explosion Hazards: None

SECTION 4: REACTIVITY

Stability: Material is non-reactive
 Hazardous Polymerization: Does not occur
 Incompatibility: None known
 Hazardous Decomposition Products: None known
 Conditions to avoid: None known

SECTION 5: HEALTH HAZARDS

Primary Route of Entry: Oral, Eye, Inhalation
 Exposure Limit: Not established
 Corrosive: Not corrosive
 Skin/ Eye Irritation: May be irritating to skin and eyes for some individuals.
 Inhalation: May be irritating to respiratory tract for some individuals. Avoid breathing dust.
 Effects of Overexposure: If product comes in contact with eyes or skin, irritation may occur.
 Toxicity: None of the components of this product are listed as carcinogenic by NTP, IARC, or OSHA

Acute studies on same active, different formula:

Acute Oral LD₅₀ (Rat): >5,000 mg/kg (very low toxicity)
 Acute Dermal LD₅₀ (Rabbit) >2,000 mg/kg
 Primary Dermal Irritation Slight Irritation
 Eye Irritation Mild Irritation, Draize score = 3.3, Class 4

SECTION 6: FIRST AID

Emergency First Aid Procedures:

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
 If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
 If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
 If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case material is released or spilled:

Wear suitable protective clothing such as long-sleeved shirt, pants, waterproof gloves and shoes with socks. Carefully mop or sweep up spill and place in a closed container for disposal.

Waste disposal method: Dispose of in accordance with all applicable federal, state, and local environmental regulations.

For emergencies such as leaks or spills, call CHEMTREC 24-hour toll-free hotline at 1-800-424-9300.

SECTION 8: SPECIAL HANDLING

Respiratory: Use dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R or HE filter.

Protective gloves: Wear gloves made of Latex or other impervious material.

Eye protection: Safety goggles or safety glasses with side shields recommended.

Other protective clothes: Clothing to prevent prolonged skin contact as needed such as long-sleeved shirt, long pants and shoes with socks.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

Empty bag completely and dispose of in accordance with all applicable federal, state, and local environmental regulations.

Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking after work or using the toilet.

SECTION 10: SHIPPING REGULATIONS

Proper shipping name: None
DOT Label (s) Required: None
Freight Classification: Insecticides, Fungicides N.O.I., Other Than Poisons. NMFC 102120 Class 60

SARA Title III Hazard Classification:

Immediate (acute) Health: No
Delayed (chronic) Health: No
Fire: No
Sudden Release of Pressure: No
Reactivity: No

National Fire Protection Association Rating:

Health: 0
Flammability: 1
Reactivity: 0

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