

Valent BioSciences

Bactimos[®] Pellets

Biological Larvicide

Material Safety Data Sheet

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Issue Date: 6/17/99
List/Code: 60381/34842
DOT Classification: Not Regulated
EPA Registration No.: 275-127
Emergency Overview: May be irritating to the eyes.
NFPA: Health - 1; Fire - 1; Reactivity - 0

COMPOSITION / INGREDIENTS

Ingredient Name:	<i>Bacillus thuringiensis</i> subsp. <i>israelensis</i>	Inert Ingredients*
% Concentration:	0.40%	99.6%
CAS/RTECS Numbers:	68038-71-1, N/A	N/A / N/A
OSHA-PEL 8HR TWA:	N/L	5 mg/m ³ mist
STEL:	N/L	N/L
Ceiling:	N/L	N/L
ACGIH-TLV 8HR TWA:	N/L	5 mg/m ³ mist
STEL:	N/L	10 mg/m ³ mist
Ceiling:	N/L	N/L
OTHER 8HR TWA:	N/A	N/A
LIMITS STEL:	N/A	N/A
Ceiling:	N/A	N/A

* Identity withheld as a trade secret.

HEALTH CONSIDERATIONS

Route(s) of Entry: Skin: No Inhalation: N/D Ingestion: No
Carcinogenicity Rating: NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L None
Signs and Symptoms: N/D. May cause eye irritation.
Medical Conditions Aggravated by Exposure: N/D. Data suggests pre-existing eye or lung disorders.
Oral Toxicity: LD50 > 5,000 mg/kg. EPA Category IV.
Dermal Toxicity: LD50 > 2,500 mg/kg. EPA Category III.
Inhalation Toxicity: Not lethal in an inhalation study at a cocentration of 4.2 mg/ltr.
EPA Category III.
Corrosiveness: No
Dermal Irritation: Slight skin reactions up to 72 hours after treatment. EPA Category IV.
Ocular Irritation: Moderate irritation; reversible within 5 days. EPA Category III.
Dermal Sensitization: N/D.
Target Organs: Possibly eyes.
Special Target Organ Effects: N/D.
Carcinogenicity Information: N/D.

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EMERGENCY AND FIRST AID PROCEDURE

Eyes/Skin: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Ingestion/

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

FIRE FIGHTING PROCEDURES

Flash Point:	N/D
Lower Explosive Limit (%):	N/D
Upper Explosive Limit (%):	N/D
Autoignition Temperature:	N/D
Fire and Explosive Hazards:	N/D
Extinguishing Media:	Use appropriate medium for underlying cause of the fire.
Fire Fighting Instructions:	Wear protective clothing and self-contained breathing apparatus.

SAFE HANDLING, USE, STORAGE, and DISPOSAL

Handling:	N/D
Storage:	Tightly reclose containers of unused granules. Store in a cool, dry place, out of direct sunlight.
Special Precautions:	Wash thoroughly with soap and water after handling.
Spill or Release Procedures:	Recover product and place in an appropriate container for disposal. Ventilate and wash the spill area.
Disposal:	Dispose of product in accordance with federal, state and local regulations.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Dark brown pellet.
Odor:	Pungent bacterial.
Boiling Point:	N/D
Melting/Freezing Point:	N/D
Vapor Pressure (mm Hg):	N/D
Vapor Density (Air=1):	N/D
Evaporation Rate:	N/D
Bulk Density:	35 lbs. /ft ³
Specific Gravity:	N/D
Solubility:	Insoluble in water.
pH:	N/D
Viscosity:	N/D
Reactivity:	Not reactive

LEGEND

N/A = Not Applicable

L = Listed

ltr = Liter

N/D = Not Determined

S = Short Term

N/L = Not Listed

C = Ceiling

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