

Material Safety Data Sheet

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Issue Date: 07/02/96
List/Code: 12046/80250
DOT Classification: Not Regulated
EPA Registration No.: 275-103
Emergency Overview: No data are available for this material. Available information suggests that long-term exposure could cause lung fibrosis.
NFPA: Health 1 ; Fire 1 ; Reactivity 0

COMPOSITION / INGREDIENTS

Ingredient Name:	Bacillus thuringiensis var. kurstaki	Inert Ingredients*
% Concentration:		
CAS/RTECS Numbers:	68038-71-1 / N/A	N/A / N/A
OSHA-PEL 8HR TWA:	N/L	15 mg/m ³ total dust, 5mg/m ³ respirable fraction for a major component
STEL:	N/L	N/L
Ceiling:	N/L	N/L
ACGIH-TLV 8HR TWA:	N/L	2 mg/m ³ respirable fraction for a major component
STEL:	N/L	N/L
Ceiling:	N/L	N/L
OTHER 8HR TWA:	N/A	N/A
LIMITS STEL:	N/A	N/A
Ceiling:	N/A	N/A

*Hazardous per OSHA criteria.

HEALTH CONSIDERATIONS

Route(s) of Entry: Skin: N/D Inhalation: Yes Ingestion: No
Carcinogenicity Rating: NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L None
Signs and Symptoms: N/D. Available information suggests direct contact with the eyes or skin may cause mild irritation. Inhalation may result in respiratory tract irritation and chemical pneumonitis. Ingestion could result in gastrointestinal irritation, purging, fluid loss, fall in blood pressure and hypernatremia with long-term exposure producing pneumonociosis and lung fibrosis.

Medical Conditions Aggravated by Exposure:

N/D. Data suggest pre-existing eye, skin, lung and metabolic/gastrointestinal ailments.
Oral Toxicity: N/D. LD50 > 4000 mg/kg in rats, for a formulation of the active ingredient.
Dermal Toxicity: N/D.
Inhalation Toxicity: N/D.
Corrosiveness: N/D.

HEALTH CONSIDERATIONS continued

Dermal Irritation:	N/D. A formulation of the active ingredient was mildly irritating in a skin irritation test in rabbits; effects were reversible within 3 days.
Ocular Irritation:	N/D. A formulation of the active ingredient was mildly irritating in an eye irritation test in rabbits; effects were reversible within 2 days.
Dermal Sensitization:	N/D. There was no evidence of sensitization for a formulation of the active ingredient, in guinea pigs.
Target Organs:	Respiratory system and possibly gastrointestinal tract, eyes, skin.
Special Target Organ Effects:	N/D. For a formulation of the active ingredient in toxicity studies in rats and sheep, no significant treatment-related effects were observed. In a 4-week inhalation study in guinea pigs, animals receiving 0.2 mg/ltr. exhibited evidence of inflammation and reduced adrenal weights. One major component has been reported to produce lung fibrosis in experimental animals and exposed workers. A minor component has been reported to produce fetotoxicity and musculoskeletal abnormalities in reproductive studies in animals.
Carcinogenicity Information:	N/D.

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 the 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:	Tight container.
Special Precautions:	Wash hands and face after handling this compound.
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.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Field Application: Refer to product label.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Solid.
Odor:	N/D
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:	N/D
Specific Gravity:	N/D
Solubility:	N/D
pH:	N/D
Viscosity:	N/D
Reactivity:	Alkalinity inactivates the product.

LEGEND

N/A = Not Applicable

L = Listed

® = A registered trademark of Abbott Laboratories

N/D = Not Determined

S = Short Term

™ = A trademark of Abbott Laboratories

N/L = Not Listed

C = Ceiling

ltr = liter

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