

Product Name: Deliver  
Emergency Information: Chem Tel (800) 255-3924  
Outside North America Call Collect (813) 248-0585

# MATERIAL SAFETY DATA SHEET

Certis USA  
9145 Guilford Road, Suite 175  
Columbia, Maryland 21046

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME..... : **Deliver**  
PRODUCT CODE..... : 6150  
CHEMICAL FAMILY..... : Bacillus thuringiensis kurstaki  
CHEMICAL NAME..... : Not Applicable  
FORMULA..... : Not Applicable

### EMERGENCY TELEPHONE NUMBERS:

Emergency Information Chem Tel (800) 255-3924  
Outside North America Call Collect (813) 248-0585

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>WT.%</u>	<u>OSHA PEL</u>	<u>TLV's TWA</u>	<u>STEL</u>
Bacillus thuringiensis	68038-71-1	18.0	Not established	Not established	Not established

## 3. HAZARDOUS IDENTIFICATION

### EMERGENCY OVERVIEW

**This product is a brown granular material with a fishmeal odor, which is intended for use as a pesticide. If poisoning is suspected, contact a physician, the nearest hospital, or the nearest Poison Control Center. There is no specific antidote for the product, treat symptomatically.**

### EPA Signal Word: Caution

### Potential Health Effects

**ROUTE(S) OF ENTRY**..... : Eyes, skin, oral, inhalation

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE**..... : May cause irritation of eyes, skin, or respiratory tract.

**ACUTE EYE CONTACT**..... : May cause eye irritation.

**CHRONIC EYE CONTACT**..... : Chronic exposure not likely from normal use.

**ACUTE SKIN CONTACT**..... : A skin sensitization (allergic) reaction may occur in sensitive individuals.

**CHRONIC SKIN CONTACT**..... : Chronic exposure not likely from normal use.

**CHRONIC INGESTION**..... : Chronic exposure not likely from normal use

**ACUTE INHALATION**..... : May cause irritation.

**CHRONIC INHALATION**..... : Chronic exposure not likely from normal use



**CARCINOGENICITY**

NTP ..... : N/A  
IARC ..... : N/A  
OSHA ..... : N/A

**MEDICAL CONDITIONS**

**AGGRAVATED BY EXPOSURE:** Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

**4. FIRST AID MEASURES:**

**If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name and the type and amount of exposure. Describe any symptoms and follow the advice given.**

**FIRST AID FOR EYES** ..... : Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicated agents except on the advice of a physician.

**FIRST AID FOR SKIN**..... : Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

**FIRST AID FOR INHALATION** ..... : Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

**FIRST AID FOR INGESTION** ..... : If victim is fully conscious, immediately give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES:**

**NFPA HAZARD CLASSIFICATION**..... : HEALTH HAZARD 1 FIRE HAZARD 0  
..... REACTIVITY 0

**EXTINGUISHING MEDIA** ..... : Dry chemical, foam, or carbon dioxide

**UNUSUAL FIRE AND EXPLOSION HAZARDS**..... : Thermal decomposition products may include, but are not limited to, CO<sub>2</sub>, H<sub>2</sub>O, and particulate fillers.

**SPECIAL FIRE FIGHTING PROCEDURES** ..... : None

**6. ACCIDENTAL RELEASE MEASURES:**

**SPILL OR LEAK PROCEDURES**..... : Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved dust or pesticide respirator with a dust prefilter. For small spills, sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner.





Product Name: Deliver  
Emergency Information: Chem Tel (800) 255-3924  
Outside North America Call Collect (813) 248-0585

**VAPOR PRESSURE at 20 °C**..... : Not determined  
**VAPOR DENSITY**..... : Not determined

**10. STABILITY AND REACTIVITY:**

**STABILITY** ..... : Stable  
**HAZARDOUS POLYMERIZATION**..... : Will not occur  
**INCOMPATIBILITIES**..... : None known  
**DECOMPOSITION PRODUCTS** ..... : None known  
**CONDITIONS TO AVOID** ..... : None known



Product Name: Deliver  
Emergency Information: Chem Tel (800) 255-3924  
Outside North America Call Collect (813) 248-0585

## **11. TOXICOLOGICAL INFORMATION:**

### Acute Toxicity/Irritation Studies

Ingestion: Practically non  
Oral LD50 (rat) > 5000 mg/kg body weight  
Dermal: Not Available  
Inhalation: Not Available  
Eye Contact: non-irritating (Rabbit):  
Skin Contact: mildly irritating (Rabbit)  
Skin Sensitization: sensitizing (Guinea Pig)

### Mutagenic Potential

Bacillus thuringiensis: None Observed

### Reproductive Hazard Potential

Bacillus thuringiensis: Not Available

### Chronic/Subchronic Toxicity Studies

Bacillus thuringiensis: Not Available

### Carcinogenic Potential

Bacillus thuringiensis: Not Available

### Other Toxicity Information

Not Available

### Toxicity and Other Components

Surfactant

Direct contact with eyes may result in moderate to severe irritation with some corneal injury lasting several days to a week. Prolonged exposure to skin may result in dermatitis. Inhalation may irritate the upper respiratory tract.

### Target Organs

#### Active Ingredients

Bacillus thuringiensis Not Available

#### Inert Ingredients

Surfactant Skin and Eyes



**12. ECOLOGICAL INFORMATION:**

Summary of Effects

Bacillus thuringiensis: Low toxicity to fish and wildlife

Eco-Acute Toxicity

Bacillus Thuringiensis: Bobwhite Oral LD50>16,665 mg/kg  
Mallard Oral LD50>16,665mg/kg

Environmental Fate

Bacillus thuringiensis: Not Available

**13. DISPOSAL CONSIDERATIONS:**

WASTE DISPOSAL METHOD ..... : Do not reuse product containers. Dispose of product containers, waste containers, and residue according to local, state, and federal health and environmental regulations.

**14. TRANSPORTATION INFORMATION:**

D.O.T. PROPER SHIPPING NAME ..... : N/A  
TECHNICAL SHIPPING NAME ..... :  
D.O.T. HAZARD CLASS ..... : Not regulated  
U.N. /N.A. NUMBER..... : N/A  
PRODUCT RQ (lbs.)..... : N/A  
D.O.T. LABEL..... : N/A  
D.O.T. PLACARD..... : N/A

**15. REGULATORY INFORMATION:**

OSHA..... : N/A  
TSCA STATUS..... : Exempt  
CERCLA REPORTABLE QUANTITY ..... : None

**SARA TITLE III:**

**SECTION 302EXTREMELY**

**HAZARDOUS**..... : N/A

**SECTION 311/312**

**HAZARD CATAGORIES**.....: Acute Health Hazard

**SECTION 313**

**TOXIC CHEMICALS**..... : N/A

**RCRA STATUS** ..... : N/A

**STATE REGULATORY INFORMATION:**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your state.



Product Name: Deliver  
Emergency Information: Chem Tel (800) 255-3924  
Outside North America Call Collect (813) 248-0585

**16. OTHER INFORMATION:**

REASON FOR ISSUE..... : Company Change  
APPROVAL DATE..... : 6/18/01  
SUPERSEDES DATE..... : 11/10/99  
MSDS NUMBER ..... : 70051-69

To the best of our knowledge, the information contained herein is accurate. However, neither Certis USA nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.

