

## MATERIAL SAFETY DATA SHEET

Certis USA  
9145 Guilford Road  
Suite 175  
Columbia, Maryland 21046

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME..... : **Delfin WG**  
PRODUCT CODE..... : Not Available  
CHEMICAL FAMILY..... : Bacillus Thuringiensis  
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>TWA</u>	<u>TLV's</u>	<u>STEL</u>
Bacillus Thuringiensis	68038-71-1	7.5	N/A	N/A	N/A	N/A
Surfactant			N/A	2 mg/m3		6 mg/m3*
Sodium Sulfate			15 mg/m3 (total dust)	10 mg/m3 (total dust)		

\* recommended by manufacturer

### 3. HAZARDOUS IDENTIFICATION

#### EMERGENCY OVERVIEW

This product appears as brown granules with a fishmeal odor, which is intended for use as a pesticide to control insects on agricultural crops. There is no specific antidote if this product is ingested. Treat symptomatically.

#### Potential Health Effects

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

#### HUMAN EFFECTS AND

SYMPTOMS OF OVEREXPOSURE..... : Exposure may result in eye, skin and respiratory tract irritation.

ACUTE EYE CONTACT..... : May be slightly irritating.

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

ACUTE SKIN CONTACT..... : May be slightly irritating. 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 result in respiratory tract irritation.

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

The logo for Certis, featuring the word "CERTIS" in a bold, sans-serif font. A stylized, curved line or swoosh is positioned below the letters "E" and "R", extending from the left towards the right.

**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 when 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 any advice given.**

**FIRST AID FOR EYES** ..... : Immediately wash 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 medicating agent 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 agent 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 large amounts 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 CO2 extinguishing media.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** ..... : None Known

**SPECIAL FIRE FIGHTING PROCEDURES**..... : Wear full protective clothing and self-breathing apparatus. Evacuate nonessential personnel from the area to prevent exposure to fire, smoke, fumes, or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontamination.



**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 dust prefilters. For small spills, sweep up, keeping dust to a minimum and place in a approved chemical container. Wash the spill 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 a approved manner. Flush the area with water to remove any residue. Do not allow wash water to decontaminate water supplies.

**7. HANDLING AND STORAGE:**

**STORAGE TEMPERATURE (MIN. / MAX.)** ..... : Not Applicable

**SHELF LIFE**..... : Stable

**SPECIAL SENSITIVITY** ..... : None Known

**HANDLING AND STORAGE PRECAUTIONS** ..... : Store the material in well-ventilated, secure area away from children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the product. Always wash thoroughly after handling.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

**EYE PROTECTION REQUIREMENTS**..... : To avoid eye contact, wear safety glasses with side shields or chemical goggles.

**SKIN PROTECTION REQUIREMENTS** ..... : To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

**RESPIRATORY / VENTILATION REQUIREMENTS** : To avoid breathing dust, wear a NIOSH-approved dust or pesticide respirator with dust prefilters.

**EXPOSURE LIMITS** ..... : N/A

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**PHYSICAL FORM** ..... : Granules

**COLOR** ..... : Brown

**ODOR**..... : Fishmeal Odor

**BOILING POINT RANGE**..... : Not Applicable

**MELT POINT / FREEZE POINT** ..... : Not Applicable

**FLASH POINT** ..... : Not Applicable

**AUTO IGNITION** ..... : Not Available

**UPPER EXPLOSIVE LIMITS (UEL)**..... : Not determined

**LOWER EXPLOSIVE LIMITS (LEL)**..... : Not determined

**pH**..... : 5.5-6.5

**SOLUBILITY IN WATER**..... : Not Available

**SPECIFIC GRAVITY** ..... : 20.00 lbs./cu.ft.

**BULK DENSITY** ..... : 20.00 lbs./cu.ft.

**% VOLATILE BY WEIGHT**..... : Not Available



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VAPOR PRESSURE at 20 °C ..... : Not Available  
VAPOR DENSITY ..... : Not Available

**10. STABILITY AND REACTIVITY:**

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

**11. TOXICOLOGICAL INFORMATION:**

Oral LD50 (rat): >5,100 mg/kg body weight  
Dermal LD50 (rat): 5,000 mg/kg body weight  
Inhalation LC50 (rat): Not Available  
Eye contact: Not Available  
Skin contact: Not Available  
Skin sensitization: Not Available  
Mutagenic potential: None observed  
Reproductive hazard potential: Not Available  
Chronic/Subchronic toxicity studies: Not Available  
Carcinogenic potential: Not Available  
Other toxicity information: Not Available  
Toxicity of other components:

Surfactant:

Repeated or prolonged inhalation of dust can cause irritation of nose, throat and lungs. Exposure can result in headache, nausea, dizziness and slight irritation to eyes and skin.

Target Organs:

Active ingredients: Not Available

Inert ingredients:

Surfactant: Eyes, skin and respiratory tract

**12. ECOLOGICAL INFORMATION:**

Fish and wildlife: Low toxicity  
Oral LD50 (bobwhite): >16,665 mg/kg  
Oral LD50 (mallard): >16,665 mg/kg  
Invertebrate (Daphnia magna) life cycle NOEL 1.6E08 CFU/L  
Environmental fate: Not Available

**13. DISPOSAL CONSIDERATIONS:**

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

**14. TRANSPORTATION INFORMATION:**

D.O.T. PROPER SHIPPING NAME..... : N/A  
TECHNICAL SHIPPING NAME..... : Delfin WG



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**D.O.T. HAZARD CLASS** ..... : Insecticides or fungicides; Agricultural, N.O.S.  
**U.N. /N.A. NUMBER**..... : N/A  
**PRODUCT RQ (lbs.)**..... : N/A  
**D.O.T. LABEL**..... : Not required  
**D.O.T. PLACARD**..... : Not required

**15. REGULATORY INFORMATION:**

**OSHA STATUS** ..... : N/A  
**TSCA STATUS**..... : Exempt  
**CERCLA REPORTABLE QUANTITY**..... : N/A

**SARA TITLE III:**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES**..... : N/A  
**SECTION 311/312 HAZARD CATEGORIES** ..... : Acute health hazard  
**SECTION 313 TOXIC CHEMICALS**..... : Not Applicable

**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.

**COMPONENT NAME /  
CAS NUMBER**

**CONCENTRATION**

**STATE CODE**

**16. OTHER INFORMATION:**

**REASON FOR ISSUE**..... : Company Change  
**APPROVAL DATE**..... : 6/18/01  
**SUPERSEDES DATE**..... : 7/30/98  
**MSDS NUMBER**..... : 70051-66DEL

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