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.....: JAVELIN WG BIOLOGICAL INSECTICIDE

PRODUCT CODE :: Not Available

CHEMICAL FAMILY: Bacillus Thuringiensis (85%)

CHEMICAL NAME....: Not Applicable FORMULA....: Not Applicable

EMERGENCY TELEPHONE NUMBERS:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

			OSHA	TLV's	
COMPONENT	CAS#	<u>WT.%</u>	<u>PEL</u>	<u>TWA</u>	<u>STEL</u>
Bacillus Thuringiensis Surfactant Sodium Sulfate	68038-71-1	85	N/A N/A 15 mg/m3	N/A 2 mg/m3 10 mg/m3	N/A 6 mg/m3*
			(total dust)	(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
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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.



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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. <u>FIRST AID MEASURES</u>: 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

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.



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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:	
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. <u>DISPOSAL CONSIDERATIONS:</u>

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.....: JAVELIN 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. <u>REGULATORY INFORMATION:</u>

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 : 4/30/98 MSDS NUMBER : 70051-66

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