

# Safety Data Sheet

> 5,620 mg/kg diet  
Practically non-toxic.  
BOBWHITE QUAIL (COLINUS VIRGINIANUS):  
DIETARY TOXICITY, 5 DAYS, LC50:  
> 5,620 mg/kg diet  
Practically non-toxic.  
ARTHROPOD TOXICITY:  
HONEY BEE (APIS MELLIFERA):  
ORAL, 48 HOURS, LD50: > 100 µg/bee  
Practically non-toxic.  
HONEY BEE (APIS MELLIFERA):  
CONTACT, 48 HOURS, LD50:  
> 200 µg/bee

Practically non-toxic.  
SOIL ORGANISM TOXICITY,  
INVERTEBRATES:  
EARTHWORM (EISENIA FOETIDA):  
ACUTE TOXICITY, 14 DAYS, LC50:  
211 - 397 mg/kg dry soil  
Slightly toxic.  
BIOACCUMULATION:  
Bluegill sunfish (Lepomis macrochirus):  
WHOLE FISH: BCF: 20  
Rapid depuration after end of exposure.  
DISSIPATION:  
WATER, AEROBIC, 20 DEG C:  
HALF LIFE: 25.9 - 55.1 days  
SOIL, AEROBIC, 20 DEG C:  
HALF LIFE: 3.4 - 29 days  
KOC: 74 - 422

## 13. DISPOSAL CONSIDERATIONS

**PRODUCT:**  
Recycle if appropriate facilities/equipment available.  
Keep out of drains, sewers, ditches and water ways.  
Burn in special, controlled high temperature incinerator.  
Follow all local/regional/national/international regulations.  
**CONTAINER:**  
See the individual container label for disposal information.  
Emptied containers retain vapour and product residue.  
Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.  
Empty packaging completely.  
Triple or pressure rinse empty containers.  
Do NOT contaminate water when disposing of rinse waters.  
Ensure packaging cannot be reused.  
Do NOT re-use containers.  
Store for collection by approved waste disposal service.  
Recycle if appropriate facilities/equipment available.  
Follow all local/regional/national/international regulations.  
Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

## 14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.  
US DOT BASIC DESCRIPTION AND TECHNICAL NAME: Not regulated for domestic ground transportation.  
SPECIAL PROVISIONS: This material meets the definition of a marine pollutant.

IMDG CODE: Use description for ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
IATA/ICAO: Use description for ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 15. REGULATORY INFORMATION

TSCA INVENTORY: Exempt  
OSHA HAZARDOUS COMPONENTS:  
Acetochlor  
Glycerin  
Petroleum Distillates Hydrotreated Light  
SARA TITLE III RULES:  
SECTION 311/312 HAZARD CATEGORIES: Immediate  
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not applicable.  
SECTION 313 TOXIC CHEMICAL(S): Not applicable.  
CERCLA REPORTABLE QUANTITY: Not applicable.

## 16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.  
Follow all local/regional/national/international regulations.  
Please consult supplier if further information is needed.  
In this document the British spelling was applied.  
Significant changes versus previous edition.  
NFPA:  
HEALTH: 2  
FLAMMABILITY: 1  
INSTABILITY: 1  
0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard  
Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)  
This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important

health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.  
Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.  
000000040700  
End of document

**Warrior**

**Syngenta**

01/08/13

3622

Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro, NC 27419  
In Case of Emergency, Call  
1-800-888-8372

## 1. PRODUCT IDENTIFICATION

PRODUCT NAME: Warrior Insecticide with Zeon Technology  
PRODUCT NO.: A12838B  
EPA SIGNAL WORD: Warning  
ACTIVE INGREDIENT(%): Lambda-Cyhalothrin (11.4%)  
CAS NO.: 91465-08-6  
CHEMICAL NAME: [1a(S\*),3a(Z)]-cyano(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate  
CHEMICAL CLASS: A pyrethroid insecticide  
EPA REGISTRATION NUMBER(S): 100-1112  
SECTION(S) REVISED: 9, 15

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# Safety Data Sheet

## 2. HAZARDS IDENTIFICATION

HEALTH AND ENVIRONMENTAL: Harmful if swallowed or inhaled. Causes mild eye and skin irritation. Vapors may cause drowsiness and dizziness. May be harmful if swallowed and enters airway. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

### HAZARDOUS DECOMPOSITION

PRODUCTS: Not Available

### PHYSICAL PROPERTIES:

APPEARANCE: Blue opaque liquid (capsule suspension)

ODOR: Not Available

### UNUSUAL FIRE, EXPLOSION AND

REACTIVITY HAZARDS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Petroleum Solvent

OSHA PEL: Not Established

ACGIH TLV: Not Established

OTHER: 50 mg/m(3) (8 ppm) TWA \*

NTP/IARC/OSHA CARCINOGEN: No

Propylene Glycol

OSHA PEL: Not Established

ACGIH TLV: Not Established

OTHER: 10 mg/m(3) TWA \*\*\*\*

NTP/IARC/OSHA CARCINOGEN: No

Naphthalene (< 1.5%)

OSHA PEL: 10 ppm TWA

ACGIH TLV: 10 ppm TWA (skin)

OTHER: 10 ppm TWA \*\*

NTP/IARC/OSHA CARCINOGEN:

See "Toxicity", Sec. 11

Lambda-Cyhalothrin (11.4%)

OSHA PEL: Not Established

ACGIH TLV: Not Established

OTHER: 0.04 mg/m(3) TWA (skin) \*\*\*

NTP/IARC/OSHA CARCINOGEN: No

\* recommended by manufacturer

\*\* recommended by NIOSH

\*\*\* Syngenta Occupational Exposure Limit (OEL)

\*\*\*\* Recommended by AIHA (American Industrial Hygiene Association)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SYNGENTA HAZARD CATEGORY: C, S

## 4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

INGESTION: IF SWALLOWED: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

EYE CONTACT: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

SKIN CONTACT: IF ON SKIN OR

CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

INHALATION: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: There is no specific antidote if this product is ingested. Treat symptomatically. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

MEDICAL CONDITION LIKELY TO BE AGGRAVATED BY EXPOSURE: Not Available

## 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION:

FLASH POINT (TEST METHOD):

> 200 deg F

FLAMMABLE LIMITS (% IN AIR):

LOWER: Not Applicable

UPPER: Not Applicable

AUTOIGNITION TEMPERATURE:

Not Available

FLAMMABILITY: Not Applicable

UNUSUAL FIRE, EXPLOSION AND

REACTIVITY HAZARDS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

IN CASE OF FIRE: Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

## 6. ACCIDENTAL RELEASE MEASURES

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## 7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food,

beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

INGESTION: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

EYE CONTACT: Where eye contact is likely, use chemical splash goggles.

SKIN CONTACT: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or Viton), coveralls, socks and chemical-resistant footwear. Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11 of MSDS). Do not touch unprotected skin areas (face) with contaminated gloves or clothing.

INHALATION: A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue opaque liquid (capsule suspension)

ODOR: Not Available

MELTING POINT: Not Available

BOILING POINT: Not Available

SPECIFIC GRAVITY/DENSITY:

1.060 - 1.070 g/ml

pH: 4.5 - 6.0 (neat)

SOLUBILITY IN H2O:

LAMBDA-CYHALOTHRIN: 0.004 mg/l

VAPOR PRESSURE:

LAMBDA-CYHALOTHRIN: 1.5 x 10<sup>-9</sup> mmHg @ 68 deg F (20 deg C)

## 10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID: Not Available

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# Safety Data Sheet

MATERIALS TO AVOID: Not Available  
HAZARDOUS DECOMPOSITION  
PRODUCTS: Not Available

## 11. TOXICOLOGICAL INFORMATION ACUTE TOXICITY/IRRITATION STUDIES (FINISHED PRODUCT):

INGESTION:  
ORAL (LD50 MALE RAT):  
351 mg/kg body weight  
DERMAL:  
DERMAL (LD50 RAT):  
> 2000 mg/kg body weight  
INHALATION:  
INHALATION (LC50 RAT):  
> 2.5 mg/l air - 4 hours  
EYE CONTACT: Mildly Irritating (Rabbit)  
SKIN CONTACT: Slightly Irritating (Rabbit)  
SKIN SENSITIZATION: Not Available  
REPRODUCTIVE/DEVELOPMENTAL  
EFFECTS:  
LAMBDA-CYHALOTHRIN: Not a  
developmental or reproductive toxicant.  
CHRONIC/SUBCHRONIC TOXICITY  
STUDIES:

LAMBDA-CYHALOTHRIN: Reversible  
paresthesia (abnormal skin sensation).  
Reversible clinical signs of neurotoxicity in  
mammals.

### CARCINOGENICITY:

LAMBDA-CYHALOTHRIN: No treatment-  
related tumors in rats or mice.

OTHER TOXICITY INFORMATION: In  
humans, contact with exposed skin may  
result in temporary itching, tingling, burning  
or numbness, called paresthesia. The effect  
may result from splash, aerosol, or hot  
vapor contact, or transfer to the face from  
contaminated gloves and hands. The  
symptoms normally disappear within 24  
hours. Face and genital areas are  
especially susceptible to this effect.  
Paresthesia involving the face is also  
known as "subjective facial sensation" or  
SFS.

TOXICITY OF OTHER COMPONENTS:  
NAPHTHALENE (< 1.5%): Test results  
reported in Section 11 for the final product  
take into account any acute hazards related  
to the naphthalene in the formulation.  
Chronic overexposure to naphthalene can  
affect the liver, kidney, respiratory tract and  
blood.

### CARCINOGEN STATUS:

NTP: Anticipated Carcinogen  
IARC: Group 2B Possible Human  
Carcinogen Petroleum Solvent  
Repeated exposure may cause skin dryness  
or cracking. If swallowed, may be aspirated  
and cause lung damage. May be irritating to  
the eyes, nose, throat and lungs. Breathing  
of high vapor concentrations may cause  
central nervous system (CNS) depression  
resulting in dizziness, light-headedness,  
headache, nausea and loss of coordination.  
PROPYLENE GLYCOL: Test results  
reported in Section 11 for the final product  
take into account any acute hazards related  
to the propylene glycol in the formulation.  
Reported to cause central nervous system  
depression (anesthesia, dizziness,  
confusion), headache and nausea. Chronic  
dietary exposure caused kidney and liver  
injury in experimental animals.

### TARGET ORGANS:

ACTIVE INGREDIENTS:

LAMBDA-CYHALOTHRIN: Liver, nervous  
system  
INERT INGREDIENTS:  
NAPHTHALENE: Liver, kidney, respiratory  
tract, blood  
PETROLEUM SOLVENT: Respiratory tract,  
stomach, liver, thyroid, urinary bladder,  
CNS, skin Propylene  
GLYCOL: CNS, kidney, liver

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY EFFECTS:

LAMBDA-CYHALOTHRIN:  
Fish (Rainbow Trout) 96-hour  
LC50 0.19 ppb  
Bird (Mallard Duck) LD50  
Oral > 3950 mg/kg  
Invertebrate (Water Flea) 48-hour  
EC50 0.04 ppb  
ENVIRONMENTAL FATE:  
LAMBDA-CYHALOTHRIN: The information  
presented here is for the active ingredient,  
lambda-cyhalothrin. Not persistent in soil or  
water. Immobile in soil. Sinks in water (after  
24 h).

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:  
Ground Transport - NAFTA  
PROPER SHIPPING NAME: Pyrethroid  
Pesticides, Liquid, Toxic, (contains  
Lambda-Cyhalothrin)  
HAZARD CLASS OR DIVISION: 6.1  
IDENTIFICATION NUMBER: UN 3352  
PACKING GROUP: PG III  
COMMENTS:  
Water Transport - International  
PROPER SHIPPING NAME: Pyrethroid  
Pesticides, Liquid, Toxic, (contains  
Lambda-Cyhalothrin), Marine Pollutant  
HAZARD CLASS OR DIVISION: 6.1  
IDENTIFICATION NUMBER: UN 3352  
PACKING GROUP: PG III  
AIR TRANSPORT:  
PROPER SHIPPING NAME: Pyrethroid  
Pesticides, Liquid, Toxic, (contains  
Lambda-Cyhalothrin)  
HAZARD CLASS OR DIVISION: 6.1  
IDENTIFICATION NUMBER: UN 3352  
PACKING GROUP: PG III

## 15. REGULATORY INFORMATION

EPCRA SARA TITLE III CLASSIFICATION:  
SECTION 311/312 HAZARD CLASSES:  
Acute Health Hazard  
Chronic Health Hazard  
SECTION 313 TOXIC CHEMICALS:  
Naphthalene (< 1.5%) (CAS No. 91-20-3)  
CALIFORNIA PROPOSITION 65: This  
Product contains trace amounts of  
chemicals, known to the State of California  
to cause cancer, as unintended impurities  
resulting from other entities manufacturing  
or processing operations which Syngenta  
cannot control.  
CERCLA/SARA 304 REPORTABLE  
QUANTITY (RQ): Report product spills

> 800 gal. (based on naphthalene [RQ =  
100 lbs.] content in the formulation)  
RCRA HAZARDOUS WASTE Classification  
(40 CFR 261):  
Not Applicable  
TSCA STATUS: Exempt from TSCA,  
subject to FIFRA

## 16. OTHER INFORMATION

### NFPA HAZARD RATINGS:

HEALTH: 2  
FLAMMABILITY: 1  
INSTABILITY: 0  
HMIS HAZARD RATINGS:  
HEALTH: 2  
FLAMMABILITY: 1  
REACTIVITY: 0

0 Minimal; 1 Slight; 2 Moderate; 3 Serious;  
4 Extreme

FOR NON-EMERGENCY QUESTIONS  
ABOUT THIS PRODUCT CALL:

1-800-334-9481  
ORIGINAL ISSUED DATE: 12/12/2000  
REVISION DATE: 1/8/2013  
REPLACES: 7/16/2010

The information and recommendations  
contained herein are based upon data  
believed to be correct. However, no  
guarantee or warranty of any kind,  
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to the information contained herein.  
End of MSDS

Warrior II with Zeon

Syngenta

07/16/10

5063

Syngenta Crop Protection, Inc.  
Post Office Box 18300  
Greensboro, NC 27419  
IN CASE OF EMERGENCY, CALL:  
1-800-888-8372

## 1. PRODUCT IDENTIFICATION

PRODUCT NAME: WARRIOR II WITH  
ZEON TECHNOLOGY  
PRODUCT NO.: A12871Q  
EPA SIGNAL WORD: Warning  
ACTIVE INGREDIENT(%): Lambda-  
Cyhalothrin (22.8%)  
CAS NO.: 91465-08-6  
CHEMICAL NAME: [1a(S\*),3a(Z)]-cyano(3-  
phenoxyphenyl)methyl-3-(2-chloro-3,3,3-  
trifluoro-1-propenyl)-2,2-  
dimethylcyclopropanecarboxylate  
CHEMICAL CLASS: A pyrethroid  
insecticide  
EPA REGISTRATION NUMBER(S):  
100-1295  
SECTION(S) REVISED: 12

## 2. HAZARDS IDENTIFICATION

HEALTH AND ENVIRONMENTAL: Toxic if  
swallowed. Harmful if inhaled. May be  
harmful in contact with skin. Irritating to  
eyes and skin. May cause an allergic skin  
reaction.  
May cause temporary itching, tingling,  
burning or numbness of exposed skin,  
called paresthesia.  
Vapors may cause drowsiness or dizziness.  
May be harmful if swallowed and enters  
airway.

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