

# SAFETY DATA SHEET



Date Issued : 7/16/2015

SDS No : Voltage 2

## Voltage 2

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Voltage 2  
**CHEMICAL FAMILY:** Insecticide

#### DISTRIBUTOR

Innvictis Crop Care, LLC  
 4850 Hahns Peak Drive, Suite 200  
 Loveland, CO 80538

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Assistance Call: 1-800-222-1222  
 Chemical Emergency Call CHEMTREC: 1-800-424-9300

**EPA REG. NO.:** 89168-20-89391

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Acute Toxicity (Oral), Category 3  
 Acute Toxicity (Dermal), Category 5  
 Acute Toxicity (Inhalation), Category 4  
 Skin Irritation, Category 3  
 Eye Irritation, Category 2A  
 Skin Sensitization, Category 1B  
 Carcinogenicity, Category 2  
 Aspiration Hazard, Category 1

##### Environmental:

Acute Hazards to the Aquatic Environment, Category 1

##### Physical:

Flammable Liquids, Category 4

#### GHS LABEL



Skull and  
crossbones



Health  
hazard



Environment



Exclamation  
mark

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H227: Combustible liquid.  
 H301: Toxic if swallowed.  
 H304: May be fatal if swallowed and enters airways.  
 H313: May be harmful in contact with skin.  
 H316: Causes mild skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.

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H332: Harmful if inhaled.

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

**PRECAUTIONARY STATEMENTS****General:**

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

**Prevention:**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, sparks, flames, and hot surfaces. – No smoking.

P261: Avoid breathing mist, vapors or spray.

P264: Wash hands, face and other affected areas thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

**Response:**

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment see Section 4, First Aid Measures, on this SDS.

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P370+P378: In case of fire: Use Dry Chemical, CO<sub>2</sub>, water spray, or regular foam for extinction.

P391: Collect spillage.

P308+P313: IF exposed or concerned: Get medical advice/attention.

**Storage:**

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container to Local, State and Federal Regulations.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia. This product contains Bifenthrin, a pyrethroid. Chlorpyrifos is a cholinesterase inhibitor.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes substantial, but temporary, eye irritation.

**CANCER STATEMENT:** Naphthalene - CAS 91-20-3 - IARC Group 2B

**SENSITIZATION:** This product may cause an allergic skin reaction.

**COMMENTS HEALTH:** Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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Chemical Name	Wt.%	CAS
Chlorpyrifos	28.6	2921-88-2
Bifenthrin	9	82657-04-3
Naphthalene	<= 5	91-20-3
Other Ingredients	<= 62.4	Mixture

#### 4. FIRST AID MEASURES

**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia. This product contains Bifenthrin, a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Digestible fats, oils, or alcohol may increase absorption and should be avoided. Chlorpyrifos is a cholinesterase inhibitor. Treatment is symptomatic and supportive. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful).

**ANTIDOTES:** Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

**ADDITIONAL INFORMATION:** Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **NPCC 1-800-222-1222** or call **CHEMTREC 1-800-424-9300**.

#### 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Toxic fumes may be emitted in a fire situation.

**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

**EXPLOSION HAZARDS:** Moderately Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

**FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Immediately pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Wash the contaminated area with detergent and soap solution. Check local, state, and federal regulations for proper disposal.

**LARGE SPILL:** Immediately dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Scrub the contaminated area with a detergent or soap solution. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

#### ENVIRONMENTAL PRECAUTIONS

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**WATER SPILL:** Do not contaminate any body of water.

**LAND SPILL:** Avoid runoff onto any adjacent land.

**SPECIAL PROTECTIVE EQUIPMENT:** Always wear proper protective equipment when handling this product.

## 7. HANDLING AND STORAGE

**HANDLING:** Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with eyes and contact with skin. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Do not freeze. Store in a cool place above 40°F. If crystals are observed, warm material to above 60°F by placing container in a warm location. Shake or roll container periodically to re-dissolve solids. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Store in a well ventilated area under lock and key.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Naphthalene	TWA	10	50	10	52
	STEL			15	79

**ENGINEERING CONTROLS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

**SKIN:** Wear chemical resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

**RESPIRATORY:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Wear a NIOSH/MSHA approved dust mask or filter when vapors are expected to be generated above the permissible limit.

**PROTECTIVE CLOTHING:** Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**OTHER USE PRECAUTIONS:** Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Mild Aromatic

**APPEARANCE:** Liquid

**COLOR:** Light yellow

**pH:** 4.21

**PERCENT VOLATILE:** Not Established

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**FLASH POINT AND METHOD:** (172 °F)**FLAMMABLE LIMITS:** Not Established**AUTOIGNITION TEMPERATURE:** Not Established**VAPOR PRESSURE:** Not Established**VAPOR DENSITY:** Not Established**BOILING POINT:** Not Established**FREEZING POINT:** <= (32°F)**Notes:** Crystals may form at storage temperatures below <40°F. Warm product to above 60°F by placing container in a warm location. Shake or roll container to re-dissolve solids.**MELTING POINT:** Not Established**POUR POINT:** Not Established**THERMAL DECOMPOSITION:** Not Established**SOLUBILITY IN WATER:** Emulsifies**EVAPORATION RATE:** Not Established**DENSITY:** 8.17 - 8.50 lbs/gal.**SPECIFIC GRAVITY:** 0.98 to 1.02 g/mL**VISCOSITY:** Not Established**MOLECULAR WEIGHT:** Not Established**10. STABILITY AND REACTIVITY****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** Excessive heat and open flames.**INCOMPATIBLE MATERIALS:** None known.**11. TOXICOLOGICAL INFORMATION****ACUTE****DERMAL LD<sub>50</sub>:** > 2000 mg/kg**ORAL LD<sub>50</sub>:** >50 & <500 mg/kg**INHALATION LC<sub>50</sub>:** > 2.0 mg/L**EYE EFFECTS:** Causes substantial, but temporary, eye injury.**SKIN EFFECTS:** Causes mild skin irritation.**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status
Naphthalene	2	2B

**SENSITIZATION:** This product is considered to be a skin sensitizer.**COMMENTS:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** This pesticide is extremely toxic to fish, aquatic invertebrates, small mammals and birds. Use with care when applying in areas adjacent to any body of water. DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT make any applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT

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contaminate water when disposing of equipment washwaters or rinsate.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. DO NOT apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** RQ, UN 2902, PESTICIDES, LIQUID, TOXIC (CHLORPYRIFOS, BIFENTHRIN), 6.1, PG III, ERG GUIDE 151 (RQ-Chlorpyrifos)

**PRIMARY HAZARD CLASS/DIVISION:** 6.1 Toxic

**UN/NA NUMBER:** 2902

**PACKING GROUP:** III

**NAERG:** 151

**PLACARDS:** 6.1 Poison (Toxic)

**LABEL:** 6.1 Poison (Toxic)

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Immediate, Delayed, Fire

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Bifenthrin	9	82657-04-3
Naphthalene	<= 5	91-20-3

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Chlorpyrifos	28.6	1
Naphthalene	<= 5	100

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Naphthalene	91-20-3

#### CALIFORNIA PROPOSITION 65

Chemical Name	Wt.%	Listed
Naphthalene	<= 5	Cancer

#### FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

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**Labeling Information:**

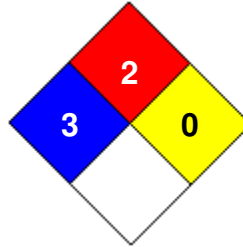
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS****WARNING / AVISO**

May be fatal if swallowed. Causes substantial but temporary eye injury. DO NOT get in eyes or on clothing.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** New SDS Format

**NFPA CODES****GENERAL STATEMENTS: DISCLAIMER AND LIMITATION OF LIABILITY**

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