

SAFETY DATA SHEET



Date Issued : 2/10/2017
SDS No : Crossover Pro
Date Revised : 1/5/2018
Revision No : 1

Crossover Pro

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Crossover Pro
CHEMICAL FAMILY: Fungicide, Insecticide

DISTRIBUTOR

Innvictis Crop Care, LLC
 1880 Fall River Drive
 Suite 100
 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.: 89168-46-89391

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

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

Environmental:

Acute Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 4

GHS LABEL



Exclamation
mark



Health
hazard



Skull and
crossbones

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.
 H319: Causes serious eye irritation.
 H331: Toxic if inhaled.

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:

- 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.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

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.
 P311: Call a POISON CENTER or doctor/physician.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 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.
 P370+P378: In case of fire: Use Dry Chemical, CO₂, or regular foam for extinction. DO NOT USE WATER.

Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 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.

COMMENTS: 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

Chemical Name	Wt.%	CAS
Lambda-cyhalothrin	10.7	91465-08-6
Propiconazole	44	60207-90-1
Other Ingredients	45.3	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. Probable mucosal damage

may contraindicate the use of gastric lavage. Treat symptomatically and give supportive therapy.

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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: Dry chemical, foam, CO₂

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

OTHER CONSIDERATIONS: DO NOT use water in an attempt to extinguish a fire. This product has been proven in lab tests to be incompatible with water.

EXPLOSION HAZARDS: No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.

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 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.

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: 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. Check local, state, and federal regulations for proper disposal.

LARGE SPILL: 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

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: Store this product locked up away from unauthorized persons, children and animals. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Storage should not exceed 100°F. Do not store this product near heat, sparks or open flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Lambda-cyhalothrin	TWA	None		None			.04

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

PHYSICAL STATE: Liquid

ODOR: Mixture of aromatic, alcohol, and hydrocarbon-like.

COLOR: Clear, amber

pH: 5.73

PERCENT VOLATILE: Not Established

FLASH POINT AND METHOD: 70°C (158°F)

FLAMMABLE LIMITS: Not Established

AUTOIGNITION TEMPERATURE: Not Established

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

FREEZING POINT: Not Established

MELTING POINT: Not Established

POUR POINT: Not Established

THERMAL DECOMPOSITION: Not Established

EVAPORATION RATE: Not Established

DENSITY: 9.26 lbs/gal.

SPECIFIC GRAVITY: 1.11

VISCOSITY #1: 82.97 Centistokes at 20°C

Crossover Pro

VISCOSITY #2: 27.37 Centistokes at 40°C**MOLECULAR WEIGHT:** Not Established**10. STABILITY AND REACTIVITY****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** Excessive heat and sunlight. Avoid any contact with water.**INCOMPATIBLE MATERIALS:** Incompatible with water. Maximum change in temperature due to reaction is 19°C. Produced heat within 2 minutes.**11. TOXICOLOGICAL INFORMATION****ACUTE****DERMAL LD₅₀:** > 2000 mg/kg**ORAL LD₅₀:** 175 mg/kg**Notes:** May pose an aspiration pneumonia hazard. Contains petroleum distillates.**INHALATION LC₅₀:** < 2.08 mg/L**EYE EFFECTS:** Causes moderate eye irritation.**SKIN EFFECTS:** Causes skin irritation.**CARCINOGENICITY****Notes:** Not listed in OSHA, NTP, IARC or ACGIH**SENSITIZATION:** This product may cause an allergic skin reaction in some individuals.**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 toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.**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:** UN 3352, Pyrethroid Pesticides, Liquid, Toxic, (contains Lambda-Cyhalothrin), Class 6.1, PG III, ERG 151**PRIMARY HAZARD CLASS/DIVISION:** 6.1 Toxic**UN/NA NUMBER:** 3352**PACKING GROUP:** III**NAERG:** 151**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Acute, Chronic, Fire, Reactivity

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

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Propiconazole	44	60207-90-1

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

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

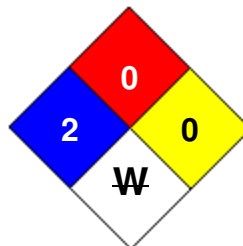
WARNING/AVISO: May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

16. OTHER INFORMATION

REASON FOR ISSUE: New Revision

REVISION SUMMARY: This SDS replaces the 2/20/2017 SDS. Revised: **Section 1: REASON FOR ISSUE.**

NFPA CODES



GENERAL STATEMENTS: DISCLAIMER AND LIMITATION OF LIABILITY

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