

Date: 5/10/2016 Replaces: 5/15/2015

1. PRODUCT IDENTIFICATION

Product identifier on label: GRIZZLY® TOO

Unity#: 1573844 Use: Pesticide

Manufacturer: Winfield Solutions, LLC

P.O. Box 64589

St. Paul, MN 55164

Manufacturer Phone: Non-Emergency Business Inquiries: 1-855-494-6343 Mon-Fri 8am – 5 pm (CST)

Emergency ChemTrec: 1-800-424-9300

Phones: Medical Emergency: 1-877-424-7452 (24 hrs

2. HAZARDS IDENTIFICATION

Classifications: Oral: Category 4

Inhalation: Category 4
Skin Sensitizer: Category 1B
Carcinogenicity: Category 2
Aspiration Hazard: Category 1

Signal Word (OSHA): Danger

Hazard Statements: Harmful if swallowed

May be fatal if swallowed and enters airways

May cause an allergic skin reaction

Harmful if inhaled

Suspected of causing cancer

Hazard Symbols:

Precautionary Statements:





Obtain special instructions before use.

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

Wash hands and face thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye protection.

If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice.

Date:

5/10/2016

Replaces:

5/15/2015

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Call a poison center, doctor or Syngenta if you feel unwell.

See Section 4 First Aid Measures.

Do NOT induce vomiting.

Store locked up.

Dispose of contents and container in accordance with local regulations.

Other Hazard Statements:

May cause temporary itching, tingling, burning or numbness of exposed

skin, called paresthesia.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name Titanium Dioxide Common Name

CAS Number

Concentration

Petroleum Solvent

Titanium Dioxide

13463-67-7

Trade Secret

Petroleum Solvent Other ingredients Petroleum Solvent

68477-31-6 Trade Secret Trade Secret

[1a(S*},3a(Z)]-cyano(3-

Other ingredients
Lambda-Cyhalothrin

91465-08-6

<77.2% 22.8%

phenoxyphenyl)methyl-3-(2-chloro-3,3,3- trifluoro-1-propenyl) -2,2- dimethylcyclopropanecarboxylate

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

4. FIRST AID MEASURES

Have the product container, label or 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 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 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 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

mi

minutes. Call 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 a poison control center or doctor for further treatment

advice.

Most important symptoms/effects:

Allergic skin reaction

Indication of immediate medical attention and special treatment

needed: There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

GRIZZLY® TOO

Date: 5/10/2016 Replaces: 5/15/2015

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.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or C02 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

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

Special protective equipment and precautions for firefighters:

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

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

Precautions for safe handling:

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.

Conditions for safe storage, including any incompatibilities:

Store locked up.

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.

Occupational Exposure Limits:

Chemical Name	OSHA	PEL	ACGIH TLV	Other	Source
Titanium Dioxide	15 mg/m³ T\	WA (total)	10 mg/m³ TWA	2.4 mg/m³10-hr TWA (fine dust); 0.3 mg/m³ (ultrafine dust)	Manufacturer
Petroleum Solvent	Not Establis	shed	Not Established	100 mg/m³ (17 ppm)	Manufacturer

Date: 1/18/2016 Replaces: 6/17/2015

Other ingredients Not Established Not Established Not Established Not Applicable

Lambda-Cyhalothrin Not Established Not Established 0.04 mg/m³ TWA Syngenta

(skin)

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures.

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, butyl rubber, nitrile 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: White liquid

Odor: Aromatic

Odor Threshold: NotAvailable

pH: 5.5 (1% in deionized H20 @ 77°F (25°C)) Melting point/freezing point: Not Applicable

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): > 212°F (Pensky-Martens CC)

Flammable Limits (% in Air): NotAvailable
Flammability: NotApplicable

Vapor Pressure: Lambda-Cyhalothrin 1.5 x 10(-9) mmHg @ 68°F (20°C)

Vapor Density: Not Available

Relative Density: 1.096 g/cm³ @ 68°F (25°C)

Solubility (ies): Lambda-Cyhalothrin 0.004 mg/l Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: 1193°F

Date: 5/10/2016 Replaces: 5/15/2015

Decomposition Temperature: Not Available

Viscosity: Not Available

Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: None known.

Incompatible materials: None known.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Allergic skin reaction, Respiratory irritation,

Paresthesia

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion: Oral (LD50 Female Rat): 310 mg/kg body weight (based on results

from similar product[s])

Dermal: Dermal (LD50 Rabbit): > 2000 mg/kg body weight (based on results

from similar product[s])

Inhalation: Inhalation (LC50 Female 3.12 mg/l air - 4 hours

Rat):

Eye Contact: Mildly Irritating (Rabbit) (based on results from similar product[s])

Skin Contact: Moderately Irritating (Rabbit) (based on results from similar product[s])

Skin Sensitization: A skin sensitizer (derived from components)

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.

Date:

5/10/2016

Replaces:

5/15/2015

Carcinogenicity

Lambda-Cyhalothrin: No treatment-related tumors in rats or mice.

Chemical Name

NTP/IARC/OSHA Carcinogen

Titanium Dioxide

IARC Group 28

Petroleum Solvent

No

Other ingredients

Nο

[1a(S*),3a(Z)]-cyano(3-phenoxyphenyl)methyl - No 3-(2-

chloro-3,3,3-trifluoro -1-propenyl}-2,2-dimethylcyclopropanecarboxylate

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 Other

ingredients

Not Established

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. May cause central nervous system depression.

Titanium Dioxide

Titanium dioxide is listed as an IARC Group 28 (Possibly Carcinogenic to Humans).

Prolonged exposure causes respiratory irritation and may lead to pulmonary fibrosis.

Normal handling and field strength application of this product are not expected to result in exposures exceeding the occupational exposure limit(s) for this ingredient.

Target Organs

Active Ingredients

Lambda-Cyhalothrin:

Liver, nervous system

Inert Ingredients

Other ingredients:

Not Established

Petroleum Solvent:

Skin, eye, respiratory tract, CNS

Titanium Dioxide:

Lung

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

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).

Page 6 of 8

Date: 5/10/2016 Replaces: 5/15/2015

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 Not Regulated

Hotritogula

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.(Lambda-Cyhalothrin), Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.(Lambda-Cyhalothrin)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:

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:

Warning: May be fatal if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

EPA Registration Number(s): 100-1295-1381

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Chronic Health Hazard

Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):

GRIZZLY® TOO

Date: 5/10/2016 Replaces: 5/15/2015

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable TSCA Status:

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings HMIS Hazard Ratings

Health:2Health:2*Flammability:1Flammability:1Instability:0Reactivity:0

Syngenta Hazard Category: D,S

0 Minimal
Slight
2 Moderate
3 Serious
4 Extreme
Chronic

Revision Date: 5/10/2016 Replaces: 5/15/2015 Section(s) Revised: All

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