

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



1. IDENTIFICATION

PRODUCT NAME: Verdepryn™ 100SL Insecticide
DESCRIPTION: A liquid insecticide
EPA Reg. No.: 71512-34-88783

COMPANY IDENTIFICATION:
Summit Agro USA, LLC
240 Leigh Farm Road, Suite 415
Durham, NC 27707

2. HAZARD IDENTIFICATION

WARNING

Combustible liquid (H227)
Very toxic to aquatic life (H400)
Toxic to aquatic life with long lasting effects (H411)



HAZARD CLASSIFICATION

Health Hazards None	Category -	Physical Hazards Flammable liquids	Category 4
		Environmental Hazards Hazardous to the aquatic environment, acute Hazardous to the aquatic environment, chronic	Category 1 2

HAZARDS NOT REQUIRING CLASSIFICATION

None.

PRECAUTIONARY STATEMENTS

Keep away from head, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Wear protective gloves and eye or face protection. (P280)
Avoid release to the environment not in accordance with the product label. Collect Spillage. (P273+P391)
Dispose of contents and container in accordance with the product label. (P503)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Cyclaniliprole	3-bromo-N-[2-bromo-4-chloro-6-[[1-(1-cyclopropylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)1H-pyrazole-5-carboxamide (CA)	1031756-98-5	9.17%
Dipropylene glycol methyl ether	-	34590-94-8	25-30%
Calcium dodecylbenzene sulphonate	-	26264-06-2	1-2%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: 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.

IF IN EYES: Hold eye 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 eye. Call a poison control center or doctor for treatment advice.

IF INHALED: 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 treatment advice.

5. FIREFIGHTING MEASURES

Flash Point: 79°C

Flammable Limits (LFL-UFL): Not available

Fire and Explosion Hazards: May decompose under fire conditions emitting gases and vapors such as hydrogen bromide, nitrous vapors, chlorine vapors, carbon monoxide and carbon dioxide which may be toxic and irritating to the respiratory tract.

Means of Extinction: SMALL FIRE: Use water spray, dry chemicals, foam or carbon dioxide.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Fire Fighting Instructions: Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to runoff.

Firefighting Equipment: Wear full firefighting turn-out gear and self-contained breathing apparatus.

Hazardous Combustion Products: hydrogen bromide, nitrous vapors, chlorine vapors, carbon monoxide and carbon dioxide

NFPA Ratings: Health – 1 / Flammability – 2 / Reactivity – 0

6. ACCIDENTAL RELEASE MEASURES

Precautionary Measures: Use protective equipment and engineering controls identified in Section 8 of this document.

Containment and Clean-up: Contain spill. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Wash spillage area with water. Do not allow wash water to enter drains or surface waters.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes or clothing. 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.

Storage: Store in original container, in a secure, dry and cool place separate from other pesticides, fertilizer, food, and feed. Avoid cross-contamination with other pesticides.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are near work areas.

Protective Clothing: Where contact is likely, wear waterproof gloves, long-sleeved shirt and long pants, socks, shoes, and chemical-resistant footwear. Where eye contact is possible, use protective eyewear (such as chemical splash goggles or a face shield)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent pale yellow liquid	pH:	3-5
Odor:	Organic, slightly pungent odor	Kinematic viscosity:	not available
Melting/freezing point:	not available	Solubility:	0.15 mg/L in water @ 20°C
Boiling point/Boiling range:	not available	Partition coefficient:	not available
Flammability:	combustible	Vapor pressure:	2.4×10^{-6} Pa @ 25°C
Flammability limits (upper/lower):	not available	Density:	1.07–1.11 g/mL @ 20°C
Flash point:	79°C (174°F)	Relative vapor density:	not available
Auto-ignition temperature:	not available	Particle characteristics:	not available
Decomposition temperature:	not available		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extreme temperatures.

CHEMICAL STABILITY: This product remains stable at 20°C over 24 months.

POSSIBILITY OF HAZARDOUS REACTIONS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen bromide, nitrous vapors, chlorine vapors, carbon monoxide and carbon dioxide.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents, strong acids or bases

REACTIVITY: No Evidence of reactivity.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY (LD₅₀): > 2,000 mg/kg (rat)

ACUTE DERMAL TOXICITY (LD₅₀): > 2,000 mg/kg (rat)

ACUTE INHALATION TOXICITY (LC₅₀): > 3.38 mg/L [actual airborne concentration];
> 18.9 mg/L (nominal) 4 hour(s) (rat)

EYE IRRITANT: Minimally irritating. Slight redness and chemosis were observed immediately after installation to test animals. All effects reversed within 72 hours. (Rabbit)

SKIN IRRITATION: Mildly irritating (primary dermal irritation index = 1.3 (Rabbit))

SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

No adverse effects were seen in mice ingesting cyclaniliprole in a 78-week feeding study. Dietary exposure to rats over two years showed thyroid effect in males ingesting over 6000 ppm but no carcinogenic effects in males or females at up to 20,000 ppm.

ACGIH: Not listed **IARC:** Not listed **NTP:** Not listed **OSHA:** Not listed

MUTAGENIC DATA: No evidence of mutagenicity.

REPRODUCTIVE AND TARGET ORGAN EFFECTS:

Animal studies show no significant evidence of reproductive toxicity at doses of cyclaniliprole up to 20,000 ppm. 90-day feeding studies showed increased liver, heart and ovary weights in female rats exposed to extreme doses of 20,000 ppm but such effects were not observed in a follow-up 1-year feeding study. Increased liver weights were observed in dogs fed over 1000 ppm but did not meet GHS guidelines for hazard classification.

12. ECOLOGICAL INFORMATION

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with local or regional permits.

Cyclaniliprole degrades very slowly in soil under both aerobic and anaerobic conditions (aerobic DT₅₀ 445 – 1118 days; anaerobic DT₅₀ 561 days). It does not show hydrolytic degradation at pH of 4 – 9 but degrades rapidly under photolytic conditions (DT₅₀ 1.2 – 2.7 days). DT₅₀ values in aquatic sediment water ranged from 32.9 – 44.9 days, but dissipation from the total system was very slow with corresponding DT₅₀ values of 507 – 866 days.

The following is for the active ingredient, Cyclaniliprole:

AQUATIC TOXICITY

Rainbow Trout 96-hr LC₅₀ = 361 mg/L [16.6 mg a.i./L]

Carp 96-hour LC₅₀ = 876 mg/L [36.2 mg a.i./L]

Daphnia magna 48-hr EC₅₀ = 2.36 mg/L
[0.0679 mg a.i./L]

Algae 96-hr E_rC₅₀: > 1000 mg/L [> 48.3 mg a.i./L]

Mysid shrimp 96-hr LC₅₀ > 0.2 mg a.i./L

Oyster EC₅₀ = 23 µg a.i./L

OTHER TOXICITY

Bobwhite Quail Acute LD₅₀ > 2000 mg/kg

Mallard Duck Acute LD₅₀ > 2000 mg/kg

Sub-Acute Dietary Bird LD₅₀ > 5000 ppm in diet
for both Quail and Mallard

BIOACCUMULATIVE POTENTIAL: Not expected to be bioaccumulative. Maximum experimentally derived BCF = 103.

MOBILITY IN SOIL: Cyclaniliprole exhibits low to medium mobility in soil (K_{foc} = 247 – 1380 mL/g; K_{foc} arithmetic mean = 790 mL/g).

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. DO NOT reuse or refill this container. Refer to product label for additional specific disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Containers ≤ 119 gal. (450 L):

Not regulated

Containers > 119 gal. (450 L):

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains cyclaniliprole), PG III, 9

Emergency Guide: 171

IMDG:

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains cyclaniliprole), PG III, 9

IATA:

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains cyclaniliprole), PG III, 9

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

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. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION:

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.
See inside label booklet for additional precautionary statements.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates and oysters. This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

SARA Title III – Section 302 Extremely Hazardous Substances

Not Listed

SARA Title III – Section 311/312 Hazard Categories

Immediate, Fire

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA –

Not Listed

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemicals known to the state of California to cause cancer or reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

REFER TO THE PRODUCT LABEL FOR TERMS AND CONDITIONS OF USE

Warranty Disclaimer

To the extent consistent with applicable law, all such risks shall be assumed by the buyer. Summit Agro USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. SUMMIT AGRO USA LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SUMMIT AGRO USA LLC AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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