



Safety Data Sheet

NipsIt INSIDE® 600 Insecticide

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NipsIt INSIDE® 600 Insecticide
PCPA REGISTRATION NUMBER: 28975
VC NUMBER(S): 1713, 1764
SYNONYM(S): V-10170 5 FS
PRODUCT DESCRIPTION: Insecticide Seed Treatment

NipsIt INSIDE is a registered trademark of Valent U.S.A. Corporation

MANUFACTURER/DISTRIBUTOR

VALENT CANADA, INC.
3-728 Victoria Road South
Guelph, Ontario N1L 1C6
(519) 767-9262

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY OR SPILL (24 hr.):
(800) 682-5368
TRANSPORTATION (24 hr.): CHEMTREC
(800) 424-9300 or (202) 483-7616

Product Information

AGRICULTURAL PRODUCTS: (800) 682-5368

The current MSDS is available through our website (www.valent.ca) or by calling the product information number(s) listed above.

2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

- Keep out of reach of children
- Harmful or fatal if swallowed.
- Harmful if absorbed through skin
- Avoid contact with skin and clothing.

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): None known

Acute Eye Contact: This product is expected to cause minimal or no eye irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling.

Acute Skin Contact: This product is minimally toxic when absorbed through the skin. This product may cause minor skin irritation and / or short term. If exposed, the expected adverse health effects may include irritation and possibly a slight inflammation. This product is not expected to cause allergic skin reactions.

Acute Ingestion: This product is slightly toxic when ingested.

Acute Inhalation: This product is minimally toxic when inhaled.

Chronic Toxicity (including cancer): The active ingredient did not cause cancer in long-term animal studies. This product is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for

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Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or ACGIH.

Developmental Toxicity (birth defects): Not considered a developmental hazard.

Reproductive toxicity: Not considered a reproductive hazard.

Signs and Symptoms of Systemic Effects: no data available

Potentially Aggravated Medical Conditions: None known

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11. For Ecotox/Environmental Information, refer to Section 12. For Regulatory Information, refer to Section 15.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Purpose
Clothianidin	210880-92-5	30 - 60	Active ingredient
Glycerine	56-81-5	1 - 5	Humectant
Inert/Other Ingredients	No CAS#	30 - 60	Other Ingredients

Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identity is withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 682-5368** at any time.

4. FIRST AID MEASURES

EMERGENCY NUMBER (800) 682-5368

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-682-5368** for emergency medical treatment information.

Eye contact:

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 centre or doctor for treatment advice.

Skin contact:

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

Ingestion:

Call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control centre or doctor. 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, if possible. Call a poison control center or doctor for further treatment advice.

Notes to physician:

Treatment is supportive and symptomatic.

5. FIRE FIGHTING MEASURES

FLASH POINT: > 200°F (93° C)
FLASH POINT METHOD: SetaFlash Closed Cup

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AUTOIGNITION:	No data available	
EXTINGUISHING MEDIA:	Water fog, carbon dioxide, foam, dry chemical	
FLAMMABLE LIMITS IN AIR - LOWER (%):		Not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%):		Not applicable

NFPA Rating:

Health:	1
Flammability:	1
Reactivity:	0
Special:	none

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

Fire fighting instructions: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

Hazardous decomposition products: May form toxic materials such as: Carbon dioxide, hydrogen chloride, Oxides of sulfur, Oxides of Nitrogen, Carbon monoxide, various hydrocarbons, etc.

6. ACCIDENTAL RELEASE MEASURES

VALENT EMERGENCY PHONE NUMBER: (800) 682-5368
CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300
OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the **North American Emergency Response Guidebook**.

UN/NA Number: Not applicable **Emergency Response Guidebook No.:** Not applicable

FOR SPILLS ON LAND:

CONTAINMENT: Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents. Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

CLEANUP: Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container. Clean up spill immediately. Vacuum or sweep up material and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

FOR SPILLS IN WATER:

CONTAINMENT: This material is miscible in water. Stop or reduce contamination of any water. Isolate contaminated water. This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water.

CLEANUP: Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Handling:

Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

Keep container tightly closed. Keep container in a cool well ventilated area. Stable at normal temperatures and storage conditions in closed original package.

Storage:

Do not reuse empty container. Open dumping is prohibited. Do not store at temperatures below 32°F (0°C). If the product is exposed to temperatures below 32°F (0°C), thaw at room temperature to 50°F (10°C) or warmer and shake gently to unify the product. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EYES & FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

RESPIRATORY PROTECTION: Use this material only in well ventilated areas. If operating conditions result in airborne concentrations of this material, the use of an approved respirator is recommended.

SKIN & HAND PROTECTION: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including long pants, long-sleeved shirt and shoes plus socks and chemical-resistant gloves. Remove contaminated clothing.

ENGINEERING CONTROLS: Use in a well ventilated area.

Exposure limits

Chemical Name	Canadian OELs
Clothianidin	none
Glycerine	10 mg/m ³
Inert/Other Ingredients	none

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Free-flowing viscous liquid
COLOUR:	White
ODOUR:	Faint characteristic odour
FLASH POINT:	> 200°F (93° C)
FLASH POINT METHOD:	SetaFlash Closed Cup
MELTING POINT:	Not applicable
BOILING POINT:	~100°C
Density:	1.25 g/cm ³ @ 20°C
VAPOUR PRESSURE:	No data available
pH:	5.4 @ 25°C (1% dilution)
Viscosity:	125-216 cP at 20 °C and shear rate between 61-1000 s-1
SOLUBILITY:	Miscible/dispersible in water

10. STABILITY AND REACTIVITY

Chemical stability:	Stable at normal ambient temperatures.
Incompatibility:	Oxidizing agents
Oxidation/Reduction properties:	Not reactive with water, monoammonium phosphate, zinc, and potassium permanganate.
Explosibility:	No Data Available
Hazardous decomposition products:	May form toxic materials such as: Carbon dioxide, hydrogen chloride, Oxides of sulfur, Oxides of Nitrogen, Carbon monoxide, various hydrocarbons, etc.
Hazardous Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral Toxicity LD ₅₀ (rats)	3,044 mg/kg	EPA Tox Category	III
Dermal Toxicity LD ₅₀ (rats)	> 5,000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 2.13 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not applicable

CARCINOGEN CLASSIFICATION

Chemical Name	IARC - Group 1 (carcinogenic to humans)	IARC - Group 2A (Probably carcinogenic)	IARC - Group 2B (Possibly carcinogenic)	NTP Carcinogen List
Clothianidin	no	no	no	Not listed
Glycerine	no	no	no	Not listed
Inert/Other Ingredients	no	no	no	Not listed

TOXICITY OF CLOTHIANIDIN TECHNICAL

Subchronic: The NOEL in a 3-month rat feeding study with Clothianidin Technical was 27.9 mg/kg/day (male) and 34.0 mg/kg/day (female). The NOEL in a 90-day dog feeding study was 19.3 mg/kg/day (male) and 21.2 mg/kg/day (female). In a subchronic dermal study with rats, the NOAEL is > 1,000 mg/kg/day.

Chronic/Carcinogenicity: The Clothianidin NOEL for a 2-year rat study was 9.7 mg/kg/day (female); for a 18-month mouse study was 47.2 mg/kg/day (male) and for a 12-month dog study was 7.8 mg/kg/day (male). The principal target organs were the glandular stomach, kidney, ovary, and liver. No oncogenic effects were observed in the 2-year rat or 18-month mouse feeding studies.

Neurotoxicity: Clothianidin is not a neural toxin.

Developmental Toxicity: No teratogenic effects on rats or rabbits were observed. Transient developmental effects (delayed ossification) were observed in rabbits at maternally toxic doses (100 mg/kg/d). The technical material is fetotoxic in animal studies at maternally toxic doses.

Reproduction: No reproductive effects were observed in rats at the highest dose tested (2500 ppm).

Mutagenicity: *In vivo* tests have demonstrated that the technical material is not mutagenic. Some *in-vitro* tests were positive for mutagenicity. The observed effects *in-vitro* were due to cytotoxic effects. The weight-of-evidence from the

in vivo whole animal tests suggest that this product does not present a mutagenic hazard.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

12. ECOLOGICAL INFORMATION

AVIAN TOXICITY: Clothianidin has a slight to practically no toxicity to avian species based on the data below. The following results were obtained from studies with Clothianidin Technical:

96-hr Oral Bobwhite quail: > 2,000 mg/kg

96-hr Oral Mallard duck: = 503 mg/kg

96-hr Dietary Mallard duck: > 5,200 ppm

AQUATIC ORGANISM TOXICITY: This product is toxic to aquatic invertebrates. The following are results from testing of Clothianidin Technical:

LC₅₀ 96-hr Bluegill: > 117 mg/L

LC₅₀ 96-hr Rainbow trout: > 104 mg/L

LC₅₀ 96-hr Sheepshead minnow: > 102 mg/L

EC₅₀ 48-hr Water flea: > 119 mg/L

LC₅₀ 96-hr Mysid: = 0.053 mg/L

120-hr Freshwater Green Algae: = 56 mg/L

OTHER NON-TARGET ORGANISM TOXICITY: The following information is based on Clothianidin Technical:

LD₅₀ 48-hour oral Honeybee: = 0.0037 ug (microgram)/bee

LD₅₀ 48-hour contact Honeybee: = 0.044 ug (microgram)/bee

LC₅₀ 7-day Earthworm: = 19 mg/kg dry soil

OTHER ENVIRONMENTAL INFORMATION:

This product is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators.

Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface. Treated seed is toxic to birds and small wild mammals.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain. Do not incinerate or puncture.

Disposal methods: Check government regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

14. TRANSPORTATION INFORMATION

DOT (ground) shipping name:	Not regulated for domestic ground transport by US DOT or Canada TDG.
Emergency Response Guidebook No.:	Not applicable
ICAO/IATA proper shipping name:	UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 9, III, Marine Pollutant
Remarks:	Single or inner packaging less than 5 L (liquids) or 5 kg net (solids) excepted from Dangerous Goods regulations -- see IATA Special Provision A197. For U.S. Shipping, Emergency Response Guidebook No. 171
IMDG proper shipping name:	UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 9, III, Marine Pollutant
Remarks:	•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7 •For US shipping, Emergency Response Guidebook No. 171
EMS No.:	F-A, S-F

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

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

Glycerine

Canada DSL Inventory List -	Present
EINECS Inventory List -	Present

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

PESTICIDE REGULATIONS: All pesticides are governed under PCPA (Pest Control Products Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

PROVINCIAL REGULATIONS: This product did not trigger any provincial regulations.

16. OTHER INFORMATION

REASON FOR ISSUE:	Reviewed and Re-issued. No major changes.
SDS NO.:	CAN-0375
PCPA REGISTRATION NUMBER:	28975
REVISION NUMBER:	5
REVISION DATE:	07/07/2017
SUPERCEDES DATE:	None
RESPONSIBLE PERSON(S):	Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent Canada, Inc. and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent Canada, Inc. nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use

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and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent Canada, Inc. to confirm that you have the most current product label and SDS.

The Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE PMRA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS 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.

The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the PMRA under the authority of the *Pest Control Products Act* through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use a PMRA-registered pesticide product in any manner inconsistent with its labeling.

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