



Safety Data Sheet

NipsIt™ SUITE Cereals OF Seed Protectant

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NipsIt™ SUITE Cereals OF Seed Protectant
PCPA REGISTRATION NUMBER: 31357
VC NUMBER(S): 1875 and 1888
PRODUCT DESCRIPTION: Seed Treatment

NipsIt is a trademark of Valent U.S.A. LLC

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

- Harmful or fatal if swallowed
- Harmful if absorbed through skin
- Avoid contact with skin and clothing
- Wash hands thoroughly with soap and water after handling.
- Remove contaminated clothing and wash before re-use.
- Keep out of reach of children

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): None known

Chronic Toxicity (including cancer): The active ingredient(s) 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 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

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REVISION NUMBER: 4

SDS NO.: CAN-0416
REVISION DATE: 01/23/2018

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	1 - 5	Active ingredient
Metconazole	125116-23-6	0.1 - 1	Active ingredient
Metalaxyl	57837-19-1	0.1 - 1	Active ingredient
Propylene glycol	57-55-6	3 - 7	Humectant
Other ingredients	Various CAS#s	60 - 100	Other Ingredients

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.

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, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Notes to physician:

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: > 200°F (93° C)
FLASH POINT METHOD: Not applicable
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: 0
 Flammability: 0

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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 for road/rail transport **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.

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.

FOR SPILLS IN WATER:

CONTAINMENT: 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 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.

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Keep container tightly closed.

Storage:

Store in a cool, dry place, out of direct sunlight. 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.

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: Wear approved respiratory protection when working with this material. An air-supplying respirator is recommended. Use this material only in well-ventilated areas.

SKIN & HAND PROTECTION: Avoid contact with skin or clothing. Skin contact can be minimized by wearing protective clothing including gloves. Wash hands before breaks and at the end of work.

ENGINEERING CONTROLS: Use in a well ventilated area.

Exposure limits

Chemical Name	Canadian OELs
Clothianidin	None
Metconazole	None
Metalaxyl	None
Propylene glycol	50 ppm (V) TWA 155 mg/m ³ (V) TWA 10 mg/m ³ (H)(b) TWA
Other ingredients	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid
COLOUR:	Opaque Red
ODOUR:	Paint-like, Latex
FLASH POINT:	> 200°F (93° C)
FLASH POINT METHOD:	Not applicable
Density:	1.05 g/mL @ 20° C
pH:	5.94 @ 25° C (1% dilution in water)
Viscosity:	73.0 cP @ 20° C; 58.9 cP @ 40° C
CORROSION CHARACTERISTICS:	no data available
SOLUBILITY:	

10. STABILITY AND REACTIVITY

Chemical stability:	Stable at normal ambient temperatures.
Oxidation/Reduction properties:	Not reactive with water, monoammonium phosphate, zinc, and potassium permanganate.
Explosibility:	Not expected to be explosive
Hazardous decomposition products:	May form toxic materials such as: Carbon dioxide,

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Hazardous Polymerization:

hydrogen chloride, Oxides of sulfur, Oxides of Nitrogen,
Carbon monoxide, various hydrocarbons, etc.
Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

The following information is for NipsIt SUITE Cereal OF Seed Protectant

Oral Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Dermal Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 2.06 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Minimally 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
Metconazole	No	No	No	Not listed
Clothianidin	No	No	No	Not listed
Metalaxyl	No	No	No	Not listed
Other ingredients	No	No	No	Not listed
Propylene glycol	No	No	No	Not listed
Hexylene glycol	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.

TOXICITY OF METCONAZOLE TECHNICAL

Subchronic: Subchronic (28 to 90 days) studies of Metconazole Fungicide Technical in rodents and dogs reported

decreased body weights, fatty vacuolation and hypertrophy of the liver, reduced RBC parameters, increased serum liver enzyme levels, and increased spleen and liver weights. There is no evidence for neurotoxicity or immunotoxicity following treatment with Metconazole Fungicide Technical. The lowest no-observable-effect level (NOEL) was 2.5 mg/kg/day.

Chronic/Carcinogenicity: In a one-year dog study, Metconazole Fungicide Technical produced effects on liver histopathology, increase serum liver enzymes and bleeding/irritation in the gastrointestinal tract. The NOEL was 11.1 mg/kg/day. In a 2-year study in rats, Metconazole Fungicide Technical produced histological changes in the liver, kidney and adrenal and possibly leukemia. The NOEL for this study was 4.8 mg/kg/day. In an 18-month mouse study, increased white blood cell count, increased serum liver enzymes increased liver weights, histopathological changes in the liver, spleen and adrenal and increased liver adenomas and adenocarcinomas were observed at doses of 300 ppm or higher. The NOEL in mice was 4.8 mg/kg/day. The mechanism of liver tumor formation in mice is believed to be not relevant to humans.

Developmental Toxicity: Maternal and fetal effects were observed in rats and rabbits treated with Metconazole Fungicide Technical during gestation. The NOELs in rats and rabbits are 16 and 20 mg/kg/day, respectively.

Reproduction: Metconazole Fungicide Technical was tested in a 2-generation rat reproduction study. At maternally toxic doses effects were noted on estrus cycling, litter size, gestation length and pup body weight. The NOEL was 10.6 mg/kg/day.

Mutagenicity: Metconazole is not considered a genotoxic hazard. Negative in gene mutation assays in vitro; in in vivo/in vitro UDS assays; and in in vivo micronucleus assays in mice. Positive in an in vitro chromosome aberration assay in the presence of S-9 but not observed in the in vivo assay.

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: The following information is based upon component(s) of this material.

96-hr Oral Bobwhite quail: > 780 mg/kg
96-hr Oral Mallard duck: = 503 mg/kg
96-hr Dietary Mallard duck: > 5,200 ppm

AQUATIC ORGANISM TOXICITY:

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

ECOLOGICAL TOXICITY:

OTHER ENVIRONMENTAL INFORMATION:

13. DISPOSAL CONSIDERATIONS

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

CONTAINER DISPOSAL: DO NOT REUSE THIS CONTAINER FOR ANY PURPOSE: This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

Make the empty container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Disposal methods: Canadian formulators using this product should dispose of unwanted active ingredient and containers in accordance with municipal or provincial regulations. For information on disposal or unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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.

IMDG proper shipping name: UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 9, III, Marine Pollutant
Remarks: For U.S. 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.

Metalaxyl

EINECS Inventory List - Present

Propylene glycol

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: Added Toxicology Information in Section 11.
SDS NO.: CAN-0416
PCPA REGISTRATION NUMBER: 31357
REVISION NUMBER: 4
REVISION DATE: 01/23/2018
SUPERCEDES DATE: August 8, 2011
RESPONSIBLE PERSON(S): Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

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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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