

**SECTION 1: PRODUCT INFORMATION****Product Identifier:** AVID® 1.9% EC INSECTICIDE/MITICIDE**Formulation Number:** A8612A**Registration Number:** 24485 (Pest Control Products Act)**Product Use:** Insecticide/miticide. Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, ON N1G 4Z3**SDS prepared by:** Department of Regulatory & Biological Assessment, Syngenta Canada Inc.**For further information, contact:** 1-87-SYNGENTA (1-877-964-3682)**In Case of Emergency, Call: 1-800-327-8633 (FAST MED)****SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with UN GHS Version 5.

**Hazard Classification(s):** Acute Toxicity (Inhalation) – Category 4  
Acute Toxicity (Oral) – Category 3  
Eye Irritation – Category 2A  
Reproductive Toxicity – Category 2  
Skin Irritation – Category 2  
Skin Sensitization – Category 1  
Specific Target Organ Toxicity (STOT) Single Exposure – Category 3  
Specific Target Organ Toxicity (STOT) Repeated Exposure – Category 2**Hazard Symbol(s):****Signal Word:** DANGER**Hazard Statement(s):** H301 – Toxic if swallowed.  
H315 – Causes skin irritation.  
H317 – May cause an allergic skin reaction.  
H319 – Causes serious eye irritation.  
H332 – Harmful if inhaled.  
H335 – May cause respiratory irritation.  
H361 – Suspected of damaging fertility or the unborn child.  
H373 – May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement(s):**

- Prevention:** P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P260 – Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 – Wash thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product.  
P271 – Use only outdoors or in a well-ventilated area.  
P272 – Contaminated work clothing should not be allowed out of the workplace.  
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- Response:** P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302+P352 – IF ON SKIN: Wash with plenty of water.  
P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 – IF exposed or concerned: Get medical advice/attention.  
P312 – Call a POISON CENTER/doctor if you feel unwell.  
P321 – Specific treatment: See Section 4 of this SDS.  
P331 – Do NOT induce vomiting.  
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 – If eye irritation persists: Get medical advice/attention.  
P362+P364 – Take off contaminated clothing and wash it before reuse.
- Storage:** P403+P233 – Store in a well-ventilated place. Keep container tightly closed.  
P405 – Store locked up.
- Disposal:** P501 – Dispose of contents/container to an approved waste disposal plant.

**Other Hazards Which do not Result in GHS Classification:** To avoid risk to human health and the environment, comply with the instructions for use.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Common Name	CAS Number	Average % by weight
1-hexanol	n-hexyl alcohol	111-27-3	25 - 35
n-methyl-2-pyrrolidone	n-methylpyrrolidone	872-50-4	20 - 30
White mineral oil	White mineral oil	8042-47-5	5 - 10
A mixture of avermectins containing Avermectin B1a and Avermectin B1b	Abamectin	71751-41-2	1.9
Butylated hydroxytoluene (BHT)	Butylated hydroxytoluene (BHT)	128-37-0	1 - 5

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

**SECTION 4: FIRST AID MEASURES**

**IF POISONING IS SUSPECTED, immediately contact the poison information centre, doctor or nearest hospital.** Have the product container, label or Safety Data Sheet with you when calling Syngenta, a poison control centre or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given. Call the Syngenta Emergency Line [1-800-327-8633 (1-800-FASTMED)], for further information.

**Eye Contact:** Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eyes. Call Syngenta, a poison control centre or doctor for treatment advice. Obtain medical attention immediately if irritation persists.

**Skin Contact:** Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water. Flush skin with running water for a minimum of 15-20 minutes. Call Syngenta, a poison control centre or doctor for treatment advice.

**Inhalation:** Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call Syngenta, a poison control centre or doctor for treatment advice.

**Ingestion:** If swallowed, immediately contact Syngenta, a poison control centre, doctor or nearest hospital for treatment advice. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occurs, have the victim lean forward with head down to avoid breathing in of vomitus.

**Most Important Symptoms/Effects, Acute and Delayed:**

Lack of coordination; tremors; dilation of the pupils.

Toxic if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Suspected of damaging fertility or the unborn child.

**Indication of Immediate Medical Attention and Special Treatment:**

Treat symptomatically.

Contains petroleum distillates, vomiting may cause aspiration pneumonia.

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

Toxicity following accidental ingestion of abamectin can be minimized by the early administration of chemical adsorbents (e.g. activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements.

Abamectin is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid, etc....) in patients with potentially toxic abamectin exposure.

**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable (and Unsuitable) Extinguishing Media:** Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread the fire.

**Specific Hazards Arising from the Product:** Combustible liquid (Class IIIA). Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water run-off can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use adequate ventilation and equipment and wear clothing as described in Section 8 and/or the product label.

**Environmental Precautions:** Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Spillages or uncontrolled discharges into watercourses must be reported to the appropriate regulatory body.

**Methods and Materials for Containment and Cleaning Up:** Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand or vermiculite. Scoop or seep up material and place into a disposal container. Wash area with detergent and water. Pick up wash liquid with additional absorbent and place into a compatible disposal container. On soils, small amounts will naturally decompose. For large amounts, skim off the upper contaminated layer and collect for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling:** Combustible liquid (Class IIIA). Can release vapours that form explosive mixtures at temperature at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back.

**KEEP OUT OF REACH OF CHILDREN.** Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours, dust or spray mist. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Protect product, wash or rinse water, and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in original container in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Refer to the product label for specific storage recommendations, including minimum storage temperature and freeze/thaw stability. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**CONSULT THE PRODUCT LABEL FOR COMMERCIAL AND/OR ON-FARM APPLICATIONS.**

**Control Parameters:**

Component	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS†
n-hexyl alcohol	Not established	Not established	Not established	No	Yes
n-methylpyrrolidone	Not established	Not established	10 ppm TWA****; 400 mg/m <sup>3</sup> TWA (ON)	No	Not established
White mineral oil	Not established	5 mg/m <sup>3</sup> (mist); 10 mg/m <sup>3</sup> STEL	5 mg/m <sup>3</sup> TWA (mist)**; 10 mg/m <sup>3</sup> STEL**; 5 mg/m <sup>3</sup> TWA (ON/QC); 10 mg/m <sup>3</sup> STEL (ON/QC)	No	Not established
Abamectin	Not established	Not established	0.02 mg/m <sup>3</sup> TWA***	No	Not established
Butylated hydroxytoluene (BHT)	Not established	2 mg/m <sup>3</sup> (inhalable)	10 mg/m <sup>3</sup> TWA**; 10 mg/m <sup>3</sup> TWA (AB/QC); 2 mg/m <sup>3</sup> TWA (inhalable aerosol & vapour) (ON)	IARC Group 3	Yes

- \* Recommended by Manufacturer
- \*\* Recommended by NIOSH
- \*\*\* Syngenta Occupational Exposure Limit (OEL)
- \*\*\*\* Recommended by AIHA (American Industrial Hygiene Association)
- † Material listed in Ingredient Disclosure List under the Hazardous Products Act

**Appropriate Engineering Controls:** If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV (threshold limit value). Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

**Individual Protection Measures:**

**General:** Avoid breathing dust, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash thoroughly after handling and before eating, drinking, applying cosmetics or handling tobacco.

**Ingestion:** Do not eat, drink, handle tobacco, or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

**Eyes:** Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Skin:** Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

**Inhalation:** A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH certified respirator 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.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Appearance:** Yellow to red-brown liquid.

**Formulation Type:** Emulsifiable concentrate.

**Physical State:** Liquid.

**Odour:** Not available (do not test for odour to avoid breathing vapours).

**Odour Threshold:** Not available.

**pH:** 2.6 – 3.6 (10% aqueous solution).

**Melting Point:** Not applicable.

**Freezing Point:** - 34 °C.

**Initial Boiling Point and Boiling Range:** Not available.

**Flash Point:** 72 °C.

**Evaporation Rate:** Not available.

**Flammability (solid/gas):** Combustible liquid (Class IIIA).

**Lower Explosive Limit:** Not applicable.

**Upper Explosive Limit:** Not applicable.

**Vapour Pressure:** Abamectin:  $2.80 \times 10^{-8}$  mmHg @ 20 °C.

**Vapour Density:** > 1

**Relative Density:** 0.96 g/mL @ 20 – 25 °C.

**Solubility(ies):** Abamectin: 48 mg/L @ 20 °C, pH 7 (water).

**Partition Coefficient (n-octanol water):** Abamectin: 5.1

**Auto-Ignition Temperature:** Not available.

**Decomposition Temperature:** Not available.

**Viscosity:** 16.1 mPa·s @ 21 °C.

**Other Information:** Not applicable.

<b>SECTION 10: STABILITY AND REACTIVITY</b>
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**Reactivity:** Not reactive.

**Chemical Stability:** Stable under normal use and storage conditions.

**Possibility of Hazardous Reactions:** Combustible liquid (Class IIIA). Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back.

**Conditions to Avoid:** Heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Incompatible Materials:** Strong caustic solutions, strong acid solutions, oxidizing agents.

**Hazardous Decomposition Products:** Can decompose at high temperatures forming toxic gases. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Dermal, inhalation, oral.

**Symptoms of Acute Exposure:** Lack of coordination; tremors; dilation of pupils. Toxic if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

**Potential Health Effects:** May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.

**Acute Toxicity/Irritation Studies (Finished Product):**

Ingestion:	<u>Moderately Acutely Toxic</u> Oral (LD50 Rat)	~ 300 mg/kg body weight
Dermal:	<u>Low Acute Toxicity</u> Dermal (LD50 Rabbit)	> 1,800 mg/kg body weight
Inhalation:	<u>Low Acute Toxicity</u> Inhalation (LC50 Rat)	> 3.5 mg/L air – 4 hours
Eye Contact:	<u>Moderately Irritating (Rabbit)</u>	
Skin Contact:	<u>Moderately Irritating (Rabbit)</u>	
Skin Sensitization:	<u>Skin Sensitizer (Guinea Pig)</u>	

**Specific Target Organ Toxicity (STOT) Single Exposure:**

Abamectin: Not classified as a specific target organ toxicant, single exposure.

**Specific Target Organ Toxicity (STOT) Repeated Exposure:**

Abamectin: Causes damage to organs through prolonged or repeated exposure. Affected organs: central nervous system.

**Carcinogenicity:**

Abamectin: Did not show carcinogenic effects in animal experiments.

**Reproductive Toxicity:**

Abamectin: Reproductive toxicity in animal studies only at doses acutely toxic to the maternal animal.

**Mutagenicity:**

Abamectin: Did not show mutagenic effects in animal experiments.

**Aspiration Hazard:**

Abamectin: Not classified as an aspiration hazard.

**Other Toxicity Information:**

Abamectin: Causes substantial but temporary eye injury. May be fatal if swallowed. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals. Early signs of abamectin poisoning include mydriasis (dilated pupils), ataxia (unsteadiness) and muscle tremors.



**Toxicity of Other Components:**

The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the “other components” in the formulation.

N-hexyl alcohol	May be irritating to the eyes. Harmful if ingested. Can be harmful if inhaled. Can be irritating to the respiratory tract. Can be harmful or fatal if absorbed through skin. Can be irritating to the skin.
n-methylpyrrolidone:	Contact with the liquid results in moderate eye irritation and may cause corneal clouding. Skin contact results in mild irritation. Prolonged skin contact may result in redness and dermatitis. Inhalation of vapours may result in respiratory irritation. Teratogenic and reproductive effects were noted in animal studies at high dose levels.
White mineral oil:	Slight irritation of the skin, dryness or cracking after repeated dermal exposure may occur. If skin is not properly cleaned, pores may be clogged and result in oil acne or folliculitis. Inhalation of vapours or mists may cause respiratory irritation.
Butylated hydroxytoluene (BHT):	Exposure may result in irritation to eyes, skin and respiratory tract. Ingestion may cause diarrhea, respiratory depression, tremors, and chronic pulmonary edema or congestion and hemorrhage. Listed as an IARC Group 3 carcinogen; not classifiable as a human carcinogen (no data available), with limited animal evidence.

**SECTION 12: ECOLOGICAL INFORMATION**

**Eco-Acute Toxicity:**

Abamectin:		
	Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	0.77 ppm
	Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	0.0036 ppm
	Birds (Bobwhite Quail) LC <sub>50</sub>	> 2,000 ppm

**Persistence & Degradability:**

Abamectin: Low persistence in soil. Moderately persistent in water; partitions to sediment.

**Bioaccumulation Potential:**

Abamectin: BCF < 500; does not bioaccumulate.

**Mobility in Soil:**

Abamectin: Low mobility in soil.

**Other Adverse Effects:** Not applicable.



**SECTION 13: DISPOSAL CONSIDERATIONS**

**Disposal Methods:**

Waste from residues: Refer to the product label for specific disposal/recycling information.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Refer to the product label for specific disposal/recycling information.  
Empty remaining contents  
Triple rinse containers  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not reuse empty containers.

**SECTION 14: TRANSPORT INFORMATION**

**TDG Classification – Road/Rail:**

Regulated.

**Land Transport (TDG):**

UN Number: UN 2902  
Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S. (Abamectin).  
Transport Hazard Class: Class 6.1  
Packing Group: PG III  
Environmental Hazards: Environmentally hazardous.

**Water Transport – International (IMDG):**

UN Number: UN 2902  
Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S. (Abamectin), Marine Pollutant.  
Transport Hazard Class: Class 6.1  
Packing Group: PG III  
Environmental Hazards: Marine pollutant.

**Air Transport (IATA-DGR):**

UN Number: UN 2902  
Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S. (Abamectin).  
Transport Hazard Class: Class 6.1  
Packing Group: PG III  
Environmental Hazards: Environmentally hazardous.

**Special Precautions for User:**

Not applicable.

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:**

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

There are Canada-specific environmental requirements for handling, use and disposal of this pest control product that are indicated on the product label.

**Hazardous Products Act Information:**

This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

**Hazardous Products Act Information:** WHMIS 2015 Classification

This product is exempt under WHMIS 2015.

**Pest Control Products Act (PCPA) Registration No.:** 24485

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.



This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

**PCPA Label Hazard Communications:**

Read the label and booklet before using.

Keep out of reach of children.

Warning: Poison.

<b>PCPA Hazard on Label:</b>	<b>Poison</b>	<b>GHS Hazard Classification:</b>	<b>Acute Toxicity (Inhalation) – Category 4; Acute Toxicity (Oral) – Category 3</b>
PCPA Precautionary Symbol:		GHS Hazard Symbol:	
PCPA Signal Word(s):	Warning	GHS Signal Word:	Danger
PCPA Hazard Statement:	Not applicable.	GHS Hazard Statement:	H332 – Harmful if inhaled. H301 – Toxic if swallowed.

**Allergens Contained in the Pest Control Product:**

Not applicable.

**NPRI Components:**

n-methylpyrrolidone.

White mineral oil.

Butylated hydroxytoluene (BHT).

**SECTION 16: OTHER INFORMATION**

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Syngenta will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This product is under the jurisdiction of the Pest Control Products Act and is exempt from the requirements for a WHMIS compliant SDS. Hazardous properties of all ingredients have been considered in the preparation of this SDS. Read the entire SDS for the complete hazard evaluation of this product.

## Full Text of Abbreviations:

AB – Province of Alberta

BC – Province of British Columbia

BCF – Bioconcentration factor

EC<sub>50</sub> – Effective concentration, 50%

GHS – Globally Harmonized System of Classification and Labeling of Chemicals

LC<sub>50</sub> – Lethal concentration, 50%LD<sub>50</sub> – Lethal dose, 50%

IARC – International Agency for Research on Cancer

IATA-DGR – International Air Transport Association Dangerous Goods Regulations

IMDG – International Maritime Code for Dangerous Goods

NTP – National Toxicology Program

ON – Province of Ontario

OSHA – Occupational Safety &amp; Health Administration

PEL – Permissible Exposure Limit

TDG – Transportation of Dangerous Goods

TLV – Threshold Limit Value

QC – Province of Quebec

SDS – Safety Data Sheet

WHMIS – Workplace Hazardous Materials Information System

Changes since last revision: Converted to SDS format.

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Prepared by: Syngenta Canada Inc.

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END OF SAFETY DATA SHEET.