

**SECTION 1: PRODUCT INFORMATION**

**Product Identifier:** BOUNDARY® LQD HERBICIDE

**Formulation Number:** A12831A

**Registration Number:** 30812 (Pest Control Products Act)

**Product Use:** Herbicide. 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 (Oral) – Category 4  
 Aspiration Hazard – Category 1  
 Eye Irritation – Category 2A  
 Skin Sensitization – Category 1

**Hazard Symbol(s):**



**Signal Word:** DANGER

**Hazard Statement(s):** H302 – Harmful if swallowed.  
 H304 – May be fatal if swallowed and enters airway.  
 H317 – May cause an allergic skin reaction.  
 H319 – Causes serious eye irritation.

**Precautionary Statement(s):**

**Prevention:** P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 – Wash thoroughly after handling.  
 P270 – Do not eat, drink or smoke when using this product.  
 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.  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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:** 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.  
 Combustible liquid.  
 Certain plastics, particularly PVC and rubber, dissolve or soften in contact with S-Metolachlor.

<b>SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS</b>
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Chemical Name	Common Name	CAS Number	Average % by weight
2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1S)-2-methoxy-1-methylethyl]acetamide	S-Metolachlor	87392-12-9	58.1
Solvent naphtha (petroleum), heavy aromatic	Petroleum solvent	64742-94-5	10 - 20
4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5-(4H)-one	Metribuzin	21087-64-9	13.8
Amines, tallow alkyl, ethoxylated	Amines, tallow alkyl, ethoxylated	61791-26-2	5 - 10
Ethylene oxide – propylene oxide copolymer mono(nonylphenyl) ether	Nonylphenyl ethoxylate propoxylate	37251-69-7	2.5 - 10

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:**

Harmful if swallowed. May be fatal if swallowed and enters airway.

Causes serious eye irritation.

May cause an allergic skin reaction.

One of the active ingredients in this product, metribuzin, may cause breathing difficulties and sedation.

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

There is no specific antidote.

Treat symptomatically.

Contains petroleum distillates, vomiting may cause aspiration pneumonia.

**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. 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. Certain plastics, particularly PVC and rubber, dissolve or soften in contact with S-Metolachlor.

**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:**

<b>Component</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other</b>	<b>NTP/IARC/OSHA Carcinogen</b>	<b>WHMIS†</b>
S-Metolachlor	Not established	Not established	5 mg/m <sup>3</sup> TWA***	No	Not established
Petroleum solvent	Not established	Not established	50 mg/m <sup>3</sup> TWA*; 300 ppm TWA (AB/QC); Calculation required based on use application (BC/ON)	No	Not established
Metribuzin	Not established	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> TWA***; 5 mg/m <sup>3</sup> TWA (AB/ON/QC)	No	Not established
Amines, tallow alkyl, ethoxylated	Not established	Not established	Not established	No	Not established
Nonylphenyl ethoxylate propoxylate	Not established	Not established	Not established	No	Not established

\* 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:** Transparent amber liquid.

**Formulation Type:** Emulsifiable concentrate.

**Physical State:** Liquid.

**Odour:** Aromatic, sulfur-like.

**Odour Threshold:** Not available.

**pH:** 3 – 5 (1% solution in water @ 25 °C).

**Melting Point:** Not applicable.

**Freezing Point:** Not available.

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

**Flash Point:** > 86.7 °C.

**Evaporation Rate:** Not available.

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

**Lower Explosive Limit:** Not available.

**Upper Explosive Limit:** Not available.

**Vapour Pressure:** S-Metolachlor: 2.80 x 10<sup>-5</sup> mmHg @ 20 °C.  
Metribuzin: 5.70 x 10<sup>-10</sup> mmHg @ 20 °C.

**Vapour Density:** Not available.

**Relative Density:** 1.08 g/mL @ 20 °C.

**Solubility(ies):** S-Metolachlor: 480 mg/L @ 20 °C, pH 7 (water).  
Metribuzin: 1,050 mg/L @ 20 °C, pH 7 (water).

**Partition Coefficient (n-octanol water):** S-Metolachlor: 3.1  
Metribuzin: 1.6

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

**Decomposition Temperature:** Not available.

**Viscosity:** 62 mPa·s.

**Other Information:** Not applicable.

**SECTION 10: STABILITY AND REACTIVITY**

**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:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Incompatible Materials:** Certain plastics, particularly PVC and rubber, dissolve or soften in contact with S-Metolachlor.

**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:** Harmful if swallowed. May be fatal if swallowed and enters airway. Causes serious eye irritation. May cause an allergic skin reaction.

**Potential Health Effects:** One of the active ingredients in this product, metribuzin, may cause breathing difficulties and sedation.

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

Ingestion:	<u>Low Acute Toxicity</u> Oral (LD50 Rat)	1,805 mg/kg body weight
Dermal:	<u>Low Acute Toxicity</u> Dermal (LD50 Rat)	> 5,000 mg/kg body weight
Inhalation:	<u>Low Acute Toxicity</u> Inhalation (LC50 Rat)	> 2.53 mg/L air – 4 hours
Eye Contact:	<u>Moderately Irritating (Rabbit)</u>	
Skin Contact:	<u>Slightly Irritating (Rabbit)</u>	
Skin Sensitization:	<u>Not a Sensitizer (Guinea Pig)</u>	

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

S-Metolachlor:	Not classified as a specific target organ toxicant, single exposure.
Metribuzin:	Not classified as a specific target organ toxicant, single exposure.

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

S-Metolachlor:	No adverse effect has been observed in chronic toxicity tests.
Metribuzin:	Metribuzin causes specific target organ toxicity in experimental animal studies in dogs in the following organ(s): blood. Metribuzin causes hemolytic anemia in animal studies. The observed effects do not appear to be relevant to humans.

**Carcinogenicity:**

S-Metolachlor:	Did not show carcinogenic effects in animal experiments.
Metribuzin:	Metribuzin was not carcinogenic in lifetime feeding studies in rats and mice.

**Reproductive Toxicity:**

S-Metolachlor: Did not show reproductive toxicity effects in animal experiments.  
Metribuzin: Metribuzin caused reproduction toxicity in a two-generation study in rats only at dose levels which were also toxic to the parent animals. The reproductive toxicity seen with metribuzin is related to parental toxicity.  
Metribuzin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with metribuzin are related to maternal toxicity.

**Mutagenicity:**

S-Metolachlor: Did not show mutagenic effects in animal experiments.  
Metribuzin: Metribuzin was not mutagenic based on the overall weight of evidence in a battery of in-vitro and in-vivo tests.

**Aspiration Hazard:**

S-Metolachlor: Not classified as an aspiration hazard.  
Metribuzin: Not classified as an aspiration hazard.

**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.

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. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light headedness, headache, nausea and loss of coordination.  
Amines, tallow alkyl, ethoxylated Causes severe skin burns and eye damage. May be harmful if swallowed.  
Nonylphenyl ethoxylate propoxylate Harmful if swallowed. Causes skin irritation. Causes serious eye damage.



**SECTION 12: ECOLOGICAL INFORMATION**

**Eco-Acute Toxicity:**

S-Metolachlor:

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	26 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	11.9 ppm
Birds (Bobwhite Quail) LD <sub>50</sub>	> 2,510 ppm

Metribuzin:

Invertebrates (Water Flea) 48-hour LC <sub>50</sub> /EC <sub>50</sub>	49.6 ppm
Fish (Rainbow Trout) 96-hour LC <sub>50</sub> /EC <sub>50</sub>	74.6 ppm
Birds (Mallard Duck) LD <sub>50</sub>	460 ppm

**Persistence & Degradability:**

S-Metolachlor:	Low to moderate persistence in soil. In water; moderately persistent in total system.
Metribuzin:	Moderately persistent in soil. Low persistence in water.

**Bioaccumulation Potential:**

S-Metolachlor:	BCF < 500; does not bioaccumulate.
Metribuzin:	BCF < 500; does not bioaccumulate.

**Mobility in Soil:**

S-Metolachlor:	Moderately mobile in soil.
Metribuzin:	Moderately to highly mobile in soil.

**Other Adverse Effects:** Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Disposal Methods:**

Waste from residues:	<p>Refer to the product label for specific disposal/recycling information.</p> <p>Do not contaminate ponds, waterways or ditches with chemical or used container.</p> <p>Do not dispose of waste into sewer.</p> <p>Where possible recycling is preferred to disposal or incineration.</p> <p>If recycling is not practicable, dispose of in compliance with local regulations.</p>
Contaminated packaging:	<p>Refer to the product label for specific disposal/recycling information.</p> <p>Empty remaining contents</p> <p>Triple rinse containers</p> <p>Empty containers should be taken to an approved waste handling site for recycling or disposal.</p> <p>Do not reuse empty containers.</p>

**SECTION 14: TRANSPORT INFORMATION****TDG Classification – Road/Rail:**

Not regulated as a dangerous good.

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

UN Number: UN 3082

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-Metolachlor/Metribuzin), Marine Pollutant.

Transport Hazard Class: Class 9

Packing Group: PG III

Environmental Hazards: Marine pollutant.

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

UN Number: UN 3082

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (S-Metolachlor/Metribuzin).

Transport Hazard Class: Class 9

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.: 30712**

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.

Caution: Poison.

Eye and Skin Irritant.

<b>PCPA Hazard on Label:</b> <b>Poison</b>  PCPA Precautionary Symbol:    PCPA Signal Word(s):      Caution PCPA Hazard Statement:      Not applicable.	<b>GHS Hazard Classification:</b> <b>Acute Toxicity (Inhalation) – Category 4; Acute Toxicity (Oral) – Category 4</b>  GHS Hazard Symbol:    GHS Signal Word:      Warning GHS Hazard Statement:      H332 – Harmful if inhaled. H302 – Harmful if swallowed.
<b>PCPA Hazard on Label:</b> <b>Eye Irritant</b> PCPA Precautionary Symbol: Not applicable.  PCPA Signal Word(s):      Not applicable. PCPA Hazard Statement:      Not applicable.	<b>GHS Hazard Classification:</b> <b>Eye Irritation – Category 2A</b> GHS Hazard Symbol:    GHS Signal Word:      Warning GHS Hazard Statement:      H319 – Causes serious eye irritation.
<b>PCPA Hazard on Label:</b> <b>Skin Irritant</b> PCPA Precautionary Symbol: Not applicable. PCPA Signal Word(s):      Not applicable. PCPA Hazard Statement:      Not applicable.	<b>GHS Hazard Classification:</b> <b>Not applicable.</b> GHS Hazard Symbol:      Not applicable.  GHS Signal Word:      Not applicable. GHS Hazard Statement:      Not applicable.

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

Product may cause an allergic skin reaction.

**NPRI Components:**

Petroleum solvent (heavy aromatic).

**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.