

**OVERCOAT PEN-GREEN** 

### 419D-P-GR

# **Safety Data Sheet**

### Section 1: Identification

**Product Identifier and Other Means of Identification** 

Product Identifier: Overcoat Pen-Green

Other Means of Identification: Stylo de Vernis d'Épargne-Vert

Related Part # 419D-P-GR

#### **Recommended Use and Restriction on Use**

**Use:** Protective coating for printed circuit boards

Uses Advised Against: Not available

#### **Details of Manufacturer or Importer**

Manufacturer MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

<b>A</b>	+1-905-331-1396
FAX	+1-905-331-2682
E-MAIL	info@mgchemicals.com

E-маіL (Competent Person): <u>sds@mgchemicals.com</u>

#### **Emergency Phone Number**

**For hazardous material incidents ONLY** (leaks, spills, fires, exposures or accidents) USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962** (Service access code: 335388)

**For emergencies involving the transport of dangerous goods**; 24/7 service CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones



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### Section 2: Hazard(s) Identification

#### **Classification of Hazardous Chemical**

#### **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Liquid		2	Danger	Flame
Skin Sensitization		1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Acute	3	none	none

*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

#### **Label Elements**

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
$\wedge$	H317: May cause and allergic skin reaction
	H319: Causes serious eye irritation
·	H336: May cause drowsiness or dizziness
No Symbol Mandated	H402: Harmful to aquatic life

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Prevention	Precautionary Statements	
P102	Keep out of reach of children.	
P210	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking.	
P233	Keep container tightly closed.	
P261, P271	Avoid breathing vapors. 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 and eye protection.	
P264	Wash hands thoroughly after handling.	
P273	Avoid release to the environment.	
Response	Precautionary Statements	
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.	
P303 + P361 + P364 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water.	
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.	
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337 + P313	If eye irritation persists: Get medical advice or attention.	
Storage	Precautionary Statements	
P403 + P235	Store in well-ventilated place. Keep cool.	
P405	Store locked up.	
Disposal	Precautionary Statements	

Dispose of contents in accordance to local, regional, national, and international regulations.

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### **Hazards Not Otherwise Classified**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

### Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
123-86-4	n-butyl acetate	53%
78-93-3	butan-2-one <sup>a)</sup>	12%
108-65-6	1-methoxy-2-propanol acetate	5%
1333-86-4	carbon black	1%
8052-41-3	Stoddard solvent	1%
13463-67-7	titanium dioxide	0.2%
80-62-6	methyl methacrylate	0.1%
97-88-1	n-butyl methacrylate	0.1%

a) Also known as methyl ethyl ketone (MEK)

### Section 4: First-Aid Measures

Exposure Condition	GHS Code/Symptoms/Precautionary Statements		
IF ON SKIN	P303 + P361 + P352, P333 + P313, P363		
Immediate Symptoms	redness, irritation, dry skin		
Response	Take off immediately all contaminated clothing. Wash with plenty of water or shower.		
	If skin irritation or rash occurs: Get medical advice or attention.		
	Wash contaminated clothing before reuse.		

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IF INHALED	P304 + P340, P312	
Immediate Symptoms	dizziness, drowsiness, cough, headaches, sore throat, nausea	
Response	Remove person to fresh air and keep comfortable for breathing. If you feel unwell: Call a doctor.	
IF IN EYES	P305 + P351 + P338, P337 + P313	
Immediate Symptoms	redness, irritation, pain	
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	If eye irritation persists: Get medical advice or attention.	
IF SWALLOWED	P301 + P330, P331	
Immediate Symptoms	nausea, sore throat, diarrhea, drowsiness, dizziness, vomiting	
Response	Rinse mouth. Do NOT induce vomiting.	

### Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
Specific Hazards	The liquid may float on water and ignite.
	The vapors are heavier than air and may accumulate in low- lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
<b>Combustion Products</b>	Produces carbon oxides (CO, $CO_2$ ).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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Section 6: Accidental Release Measures		
Personal Protection	See personal protection recommendations in Section 8.	
Precautions for Response	Avoid breathing the vapors. Remove or keep away all sources of extreme heat or open flames.	
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.	
Containment	Not applicable	
Cleaning	Collect liquid in a sealable, solvent-resistant container. Wipe the residues with a paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.	
Disposal	Dispose of spill waste according to Section 13.	

## Section 7: Handling and Storage

Prevention	Keep out of reach of children.		
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
	Keep container tightly closed. Avoid breathing vapors. Use only outdoors or in a well-ventilated area.		
Handling	Wear protective gloves or eye protection.		
	Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.		
	Wash hands thoroughly after handling.		
	Avoid release to the environment.		
Storage	Store in well-ventilated place. Keep cool.		
	Store locked up.		

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### Section 8: Exposure Controls/Personal Protection

#### **Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term	Short Term
chemical Name	country	Exposure Limits	Exposure Limits
		(PEL)	(STEL)
n-butyl acetate	ACGIH	150 ppm	Not established
-	U.S.A. OSHA PEL	150 ppm	Not established
	Canada AB	150 ppm	200 ppm
	Canada BC	20 ppm	200 ppm
	Canada ON	150 ppm	Not established
	Canada QC	150 ppm	200 ppm
butan-2-one	ACGIH	200 ppm	125 ppm
	U.S.A. OSHA PEL	200 ppm	300 ppm
	Canada AB	200 ppm	300 ppm
	Canada BC	50 ppm	100 ppm
	Canada ON	200 ppm	300 ppm
	Canada QC	150 ppm	300 ppm
1-methoxy-2-propanol	ACGIH	Not established	Not established
acetate	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	Not established
	Canada QC	Not established	Not established
carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	Not established
	Canada AB	3.5 mg/m <sup>3</sup>	Not established
	Canada BC	3 mg/m <sup>3</sup>	Not established
	Canada ON	3.5 mg/m <sup>3</sup>	Not established
	Canada QC	3.5 mg/m <sup>3</sup>	Not established
Stoddard solvent	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	500 ppm	Not established
	Canada AB	100 ppm	Not established
	Canada BC	290 mg/m <sup>3</sup>	580 mg/m <sup>3</sup>
	Canada ON	100 ppm	Not established
	Canada QC	100 ppm	Not established
titanium dioxide <sup>a)</sup>	ACGIH	10 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	10 mg/m <sup>3</sup>	Not established
	Canada ON	10 mg/m <sup>3</sup>	Not established
	Canada QC	10 mg/m <sup>3</sup>	Not established

a) Respirable airborne particles

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
methyl methacrylate	ACGIH	50 ppm (S)	100 ppm
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	50 ppm	100 ppm
	Canada BC	50 ppm (S)	100 ppm
	Canada ON	50 ppm	100 ppm
	Canada QC	100 ppm	Not established
n-butyl methacrylate	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	Not established
	Canada ON	Not established	Not established
	Canada QC	Not established	Not established

*Note:* The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database<sup>2</sup> and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

S—Sensitizer (S)

#### **Engineering Controls**

VentilationKeep airborne concentrations below the occupational exposure<br/>limits (OEL).

Because the carbon black and titanium dioxide are bound to the liquid mixture, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

### **Personal Protective Equipment**

Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	<b>RECOMMENDATION:</b> Use safety glasses with lateral protection (side shields).
Skin Protection	For likely contacts, use of protective butyl rubber, neoprene, or other chemically resistant gloves.
	For incidental contacts, use nitrile, polyvinyl alcohol (PVA) or other chemically resistant gloves.
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**Respiratory Protection** For over-exposures up to 10 x OEL of vapors, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

**RECOMMENDATION:** Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

#### **General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

#### **Section 9: Physical and Chemical Properties**

Physical State	Liquid	Lower Flammability Limit <sup>c)</sup>	1.8%
Appearance	Green	Upper Flammability Limit <sup>c)</sup>	9.0%
Odor	Fruity	Vapor Pressure @20 °C <sup>c)</sup>	40 hPa [31 mmHg]
Odor Threshold	0.007 ppm	Vapor Density	>2.5 (Air =1)
рН	Not available	Relative Density @25 °C	0.93
Freezing/Melting Point	Not available	Solubility in Water	Slightly soluble
Initial Boiling Point <sup>a)</sup>	≥80 °C [≥176 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point <sup>a), b)</sup>	-3 °C [26.6 °F]	Auto-ignition Temperature <sup>d)</sup>	≥315 °C [≥599 °F]
Evaporation Rate	<1 (ButAc = 1)	Decomposition Temperature	Not available
Flammability	Highly flammable	Viscosity @25 °C	110 mm²/s

a) Values based on butan-2-one component.

b) Pensky-Martens closed cup

c) Calculated based on components.

d) Values based on 1-methoxy-2-propanol acetate, which is the component with the lowest auto-ignition value.

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### Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures.
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances.
Incompatibilities	Strong oxidizing agents, strong acids
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

### Section 11: Toxicological Information

### Summary of Effects and Symptoms by Routes of Exposure

Eyes	Causes redness, severe irritation, or pain.
Skin	Cause skin redness, irritation, dry skin, and rashes.
Inhalation	May cause dizziness, drowsiness, cough, headaches, or nausea.
Ingestion	May cause nausea, sore throat, diarrhea, or vomiting.
Chronic	Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin. May also cause skin allergies.

### Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
n-butyl acetate	>10 768 mg/kg	>17 600 mg/kg	390 ppm
	Rat	Rabbit	4 h Rat
butan-2-one	2 737 mg/kg	6 480 mg/kg	23 500 mg/m <sup>3</sup>
	Rat	Rabbit	8 h Rat
1-methoxy-2-propanol	8 532 mg/kg	>5 g/kg	Not
acetate	Rat	Rabbit	available
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available

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Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
Stoddard solvent	>5 000 mg/kg	>3 000 mg/kg	14 000 ppm
	Rat	Rat	8 h Rat
titanium dioxide	60 g/kg	Not	Not
	Rat	available	available
methyl methacrylate	7 872 mg/kg	>5 000 mg/kg	78 000 mg/m <sup>3</sup>
	Rat	Rabbit	4 h Rat
n-butyl methacrylate	16 000 mg/kg	113 000 µL/kg	29.8 mg/L
	Rat	Rabbit	4 h Rat

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA were consulted. The data from supplier SDS were also consulted.

### **Other Toxicological Effects**

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Butan-2-one is a known serious eye irritant.
Sensitization (allergic reactions)	The methyl methacrylate and n-butyl methacrylate may cause skin sensitization according to animal studies.

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<b>Carcinogenicity</b> (risk of cancer)	Because the carbon black and titanium dioxide are bound in the liquid mixture, it is not available as an airborne hazard (dust) under normal use.
	Carbon Black [1333-86-4]
	IARC Group 2B: Possibly carcinogenic to humans
	ACGIH A4: Not classified as a human carcinogen
	CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)
	NTP: Not listed
	Titanium Dioxide [13463-67-7]
	IARC Group 2B: Possibly carcinogenic to humans
	ACGIH A4: Not classified as a human carcinogen
	CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)
	NTP: Not listed
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	The n-butyl acetate, butan-2-one, Stoddard solvent, methyl methacrylate, and n-butyl methacrylate components can affect the central nervous system by inhalation causing drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met. Contains less than 10% components of category 1, and the mixture has a kinematic viscosity of >20.5 mm <sup>2</sup> /s at 40 °C.

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#### **Section 12: Ecological Information**

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<u>http://echa.europa.eu</u>), and other reliable sources.

The n-butyl acetate ingredient is an acute category 3 environmental toxicant (biodegradable, with minimal LC50 of 18 mg/L for fathead minnow).

The 2-butanone (MEK) ingredient is not classified as an environmental hazard according to GHS criteria.

The 1-methoxy-2-propanol acetate component is an acute category 3 environmental toxicant (with minimal LC50 96 h of  $\geq$ 100 mg/L Salmo gairdneri).

Based on available data, carbon black and titanium dioxide are not classified as environmental hazards according to GHS criteria.

The Stoddard solvent is a chronic category 2 environmental toxicant.

#### **Acute Ecotoxicity**

Category 3 Harmful to aquatic life Avoid release to the environment.

#### **Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds.

#### Biodegradability

Expected to be biodegradable. The volatile solvent constituents will oxidize rapidly in air by photochemical reaction.

#### **Other Effects**

Regulated Volatile Organic Compounds (VOC) content according to the US (EPA) and Canadian (CEPA) authorities.

VOC = 73% [678 g/L]

#### Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

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#### **Section 14: Transport Information**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations); USA DOT 49 CFR (Parts 100 to 185) Regulations.

Sizes 30 mL and under 419D-P-GR **Excepted Quantity** Code E2



#### Air

#### **Refer to ICAO-IATA Dangerous Goods Regulations.**

Sizes 30 mL and under 419D-P-GR **Excepted Quantity** Code E2



On air waybill, write: "Dangerous Goods in Excepted Quantities".

FOR REFERENCE ONLY UN number: UN1263 Shipping Name: PAINT **Class:** 3 Packing Group: II Marine Pollutant: No

#### Sea

**Refer to IMDG regulations.** Sizes 30 mL and under 419D-P-GR FOR REFERENCE ONLY **Excepted Quantity** UN number: UN1263 Code E2 Shipping Name: PAINT **Class:** 3 In transport document, Class 3 Shipper name Packing Group: II write: "Dangerous Goods in terrerere de Marine Pollutant: No Excepted Quantities".

#### Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

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### Section 15: Regulatory Information

#### Canada

#### Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

#### Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

USA

#### **Other Classifications**

#### **HMIS® RATING**

HEALTH:	*	2
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains n-butyl acetate (CAS# 123-86-4) and butan-2-one (CAS# 78-93-3), which can be subject to the CERCLA reporting requirements at a threshold of 5 000 lb (2 268 kg).

This product contains methyl methacrylate (CAS# 80-62-6), which can be subject to the CERCLA reporting requirements at a threshold of 1 000 lb (454 kg).

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

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California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity)

This product contains titanium dioxide and carbon black, but they are bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

#### Europe

**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

**WEEE** (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment and is therefore not governed by this regulation.

#### Section 16: Other Information

Prepared by the	Regulatory Affairs Department
Date of Revision	27 February 2020
Supersedes	07 November 2018
Reason for Changes:	Update to emergency phone numbers and general revision.

#### References

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®), MDL Information Systems, Inc.

#### Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- EC50 Half maximal effective concentration
- EL50 Half maximal effective loading
- NOELR No observable effect loading ratio
- GHS Globally Harmonized System of Classification of Labeling of Chemicals
- LC50 Lethal Concentration 50%
- LCLo Lowest published lethal concentration
- LD50 Lethal Dose 50%
- PEL Permissible Exposure Limit
- STEL Short-Term Exposure Limit
- TCLo Lowest published toxic concentration
- TWA Time Weighted Average
- VOC Volatile Organic Content

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**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at <u>www.mgchemicals.com</u>.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

Phone: +1-905-331-1396

Mailing Addresses Manufacturing & Support 1210 Corporate Drive Burlington, Ontario, Canada L7L 5R6 Head Office 9347–193rd Street Surrey, British Columbia, Canada V4N 4E7

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