

SPECIALTY GREASES

GREASES & LUBRICANTS

Conductive greases • Dielectric greases
Lubricants • Thermal greases



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MG Chemicals[®]

Serving you since 1955

WHO IS MG CHEMICALS

MG Chemicals is a manufacturer and wholesaler of chemical products for the electronics industry. Our chemical products include dusters and circuit coolers, electronic cleaners, flux removers, contact cleaners, protective coatings, epoxies, adhesives, RTV silicones, lubricants, EMI/RFI shielding coatings, thermal management products, prototyping supplies, solders, and more. We also distribute related non-chemical products such as wipes, swabs, brushes, desoldering braids, and copper clad boards.

We specialize in the formulation and production of protective coatings for electronics: Conformal Coatings, Epoxy Potting & Encapsulating Compounds, and EMI/RFI Shielding Paints.

MG SERVICE

MG Chemicals recognizes that setting up production comes with various challenges. Our service team offers a wide variety of experience in material production, equipment, and technical issues you may encounter during planning, pilot studies, and production runs. To overcome these challenges, we offer professional services.

As a service, MG Chemicals can

- Provide advice on equipment and materials
- Assist with setup and troubleshooting
- Review your proposed application processes
- Suggest ways of optimizing and customizing processes to best meet your needs
- Offer training on the proper use of our epoxy products.

Quality Assurance

Since 1955, MG Chemicals has provided the North American electronics industry with a full line of high performance chemicals and accessories. The MG Chemicals manufacturing facility operates under the ISO 9001 Quality System Standard. All products undergo MG Chemicals' design process including the testing and analysis of each product to maximize performance, user safety, environmental safeguards and market desirability.

Customer Care

Customer care is what separates MG Chemicals from the rest. Our commitment to all of these principles focus on getting you the quality product and support you deserve.

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DIELECTRIC GREASE

TRANSLUCENT SILICONE GREASE

DESCRIPTION

The 8462 Silicone Grease is a water repelling, non-melting, and lubricating dielectric grease that provides superior corrosion and arcing resistance for connectors. It is widely applicable because it is safe for most metals, rubbers, plastics and elastomers. As well, it is usable in many environments due to its high resistance and stability with respect to extreme cold, heat, humidity, and other exposure extreme exposure conditions like high voltages. Voltage arcing can be prevented due to its excellent dielectric properties. Further, because it repels water, it provides excellent oxidation resistance for contacts and relays.

BENEFITS AND FEATURES

- **Stable over a wide temperature range and conditions—Non-Melting**
- **Excellent Electrical Insulator—High Dielectric Strength and Properties**
- **Usable for incidental food contact** (Conforms to 21 CFR section 178.3570)
- **Odorless and non-toxic**
- **Corrosion Inhibitor**

ENVIRONMENT

- ✓ RoHS
- ✓ REACH compliant

SERVICE RANGE

Properties	Value
Service Temperature	-50 °C to +250 °C [-58 °F to +482 °F]
Shelf Life	5 years ^{a)}
Storage Temperature Limits	-10 °C to 40 °C [-14 °F to 104 °F] (Room temperature is acceptable) ^{b)}

a) Reported shelf life assumes room temperature storage and unopened container.

b) Cold storage avoids material separation and settling. If storing at 25 °C, mix thoroughly to disperse filler before use.

SILICONE GREASE PROPERTIES

Electric Properties	Method	Value
Dielectric Strength @0.01"	ASTM D 149	19.7 kV/mm [500 V/mil]
Volume Resistivity	ASTM D 257	$1.1 \times 10^{13} \Omega \cdot \text{cm}$
Volume Conductance	"	$9.1 \times 10^{-14} \text{ S/cm}$
Dielectric Dissipation Factor @1 MHz	ASTM D 150	0.0010
Dielectric Constant @1 MHz	ASTM D 150	2.5
Arc Resistance		120 s

Thermal Properties	Method	Value
Thermal Conductivity		0.16 W/(mK)
Evaporation after 24 h @200 °C [392 °F]		≤2%

Grease Properties	Method	Value
Penetration, Worked (x60)		200–310
Bleed after 24 h		1
Drop Point		none

Physical Properties	Method	Value
Base Material		Silicone Oil
Filler		Silica
Color	Visual	Translucent
Viscosity ^{a)}	Brookfield	63 500 cP (Thixotropic Paste)
Specific Gravity		0.989
Odor		none
Water washout	ASTM D 1264	0.86%
Water resistant		Excellent
Non-Corrosive		Excellent

a) 5 rpm with spindle CP-51

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume		Net Weight	
8462-85ML	Grease	87 mL	2.9 fl oz	87 g	2.7 oz
8462-1P	Grease	473 mL	16.0 fl oz	0.4 kg	1.0 lb
8462-1G	Grease	3.7 L	1.0 gal	3.7 kg	8.2 lb

ELECTRICALLY CONDUCTIVE GREASES

CARBON CONDUCTIVE GREASE

DESCRIPTION

The 846 Carbon Grease is an economical electrically conductive silicone grease for improving electrical connections between sliding surfaces and parts. The 846 grease is designed to lubricate while maintaining good grounding connection. It inhibits corrosion and repels humidity providing an economical way to protect switches or to bridge the gap between contacting surfaces for EMI shielding applications. It is also great for providing electrical continuity between irregular or pitted surfaces.

BENEFITS AND FEATURES

- Improves electrical connections between irregular surfaces.
- Extends the life of contacts
- Safe on plastics
- Ensures electrical contact between loose or vibrating parts and small gaps
- Volume Resistivity of 117 $\Omega \cdot \text{cm}$

APPLICATION AND STORAGE CONDITIONS

Properties	Value
Shelf Life	5 years
Storage Temperature Limits	-40 to +40 °C [-40 to +104°F]

TEMPERATURE SERVICE RANGES

Properties	Value
Service Temperature	-50 to +200 °C [-58 to +392 °F]
Maximum coverage for 25 μm [1.0 mil] thickness ^{a)}	<28 600 cm ² [<30 ft ²]

a) Theoretical coverage per 80g tube assuming 100% transfer efficiency.

PRINCIPAL COMPONENTS

Name	CAS NUMBER
Polydimethylsiloxane	63148-62-9
Carbon Black	1333-86-4

ENVIRONMENT

- ✓ RoHS
- ✓ REACH compliant

PROPERTIES

Electric Properties	Value
Volume resistivity (ρ_v)	117 $\Omega \cdot \text{cm}$
Volume Conductivity (σ_v)	8.57 mS/cm

SERVICE RANGE

Properties Properties	Value
Color	Black
Odor	Odorless
Density @25 °C	1.1 g/mL
Viscosity @25 °C [77 °F]	333 to 368 cSt
Flash Point ^{a)}	302°C [575 °F]
Lubricant	Yes
Corrosive	No
%Solids	99.6%
VOC (Volatile Organic Compound)	0%

a) Value based on silicone fluid component

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume	Net Weight
846-80G	Grease	73 mL 2.5 fl oz	0.08 kg 0.17 lb
846-1P	Grease	454 mL 1 pint	0.5 kg 1.1 lb

ELECTRICALLY CONDUCTIVE GREASES

PREMIUM CARBON CONDUCTIVE GREASE

DESCRIPTION

The 8481 Premium Carbon Conductive Grease is an electrically conductive grease with a synthetic oil base similar to the MG 846 silicone conductive grease but contains extra corrosion inhibitory making it capable of withstanding 300 hours of salt fog testing (automotive grade) and it is silicone free. Further, it will not separate even under extreme temperature cycling.

The 8481 grease lubricates and improves electrical connections between sliding surfaces and parts, ensuring good grounding connection. It is also used to improve electrical continuity between irregular and pitted surfaces, as well as providing an economical way to protect switches against corrosion.

BENEFITS AND FEATURES

- Designed to lubricate moving parts and prevent corrosion
- Improves the electrical connections between moving parts
- Prevents arching and pitting
- Survives 300 hours of salt fog testing (automotive grade)
- Will not separate even under extreme temperature cycling
- Silicone free
- Excellent lubrication

ENVIRONMENT

- ✓ RoHS
- ✓ REACH compliant

APPLICATION AND STORAGE CONDITIONS

TEMPERATURE SERVICE RANGES

Properties	Value
Shelf Life	5 years
Storage Temperature Limits	-10 to +40 °C [14 to +104°F]

Properties	Value
Service Temperature	-68 to +165 °C [-90 to +329 °F]
Maximum coverage for 25µm [1.0 mil] thickness ^{a)}	<180 000 cm ² [<190 ft ²]

PROPERTIES

a) Theoretical coverage per 454 mL [1 pint] assuming 100% transfer efficiency.

Conductivity Properties	Method	Value
Resistivity	2 point	<400 Ω·cm
Volume resistivity(ρ _v)		to be determined
Volume Conductivity (σ _v)		"
Thermal Conductivity @25 °C	ASTM E 1461	0.29 W/(mK)

Physical Properties	Method	Value
Color		Black
Odor		Odorless
Density @25 °C		1.03 g/mL
Viscosity @25 °C [77 °F] ^{a)}		630 000 cP [615 000 cSt]
Drop Point	ASTM D 2265	300°C [572 °F]
Cone Penetration	ASTM D 217	test in progress
Oil Separation (Boeing test) ^{b)}		Slight oil separation
Corrosivity		Non-Corrosive
%Filler		15%
%Evaporation loss @ 25 °C, 44 h		0.6% wt
VOC (Volatile Organic Compound) ^{c)}	Calculated	5%
Lubricant		Yes
Bleed Resistant		Yes

a) Brookfield viscometer @ 6 rpm with spindle RV # 7 b) After ten cycles from -40 °C to 121 °C c) According to WHIMS regulation

Synthetic Oil Properties	Method	Value
Oil viscosity index ^{a)}	ASTM D 2270	>110
Fire Point ^{b)}	ASTM D 92	321 °C [559 °F]
Flash Point C.O.C.	ASTM D 92	>290 °C [550 °F]

Note: Values based on synthetic oil component only. a) High oil viscosity index of more than a 100 indicate small oil viscosity change with temperature. b) Temperature at which oil will continue to burn for at least 5 s after ignition with an open flame.

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume	Net Weight
8481-1	Grease	85 mL 2.8 fl oz	81 g 2.6 oz
8481-2	Grease	483 mL 16.3 fl oz	0.4 kg 1.0 lb
8481-3	Grease	3.7 L 1.0 gal	3.6 kg 8.0 lb

ELECTRICALLY CONDUCTIVE GREASES

CARBON CONDUCTIVE ASSEMBLY PASTE

DESCRIPTION

The 847 Carbon Conductive Assembly Paste is an electrically conductive, non-bleeding grease for improving electrical connections between non-moving surfaces and parts. It inhibits corrosion, is economical, has a wide operating temperature range, long service life, and does not contain silicone.

BENEFITS AND FEATURES

- Excellent for improving connections to bus bars
- Improves contact of plugs and connectors damaged by vibration, corrosion, or pitting
- Designed to improve the electrical connection between non-moving parts
- Resistivity of 82 $\Omega\cdot\text{cm}$
- Does not separate or bleed, even at high temperatures
- Contains special corrosion inhibiting compounds

ENVIRONMENT

- ✓ RoHS
- ✓ REACH compliant

APPLICATION AND STORAGE CONDITIONS

Properties	Value
Shelf Life	5 years
Maximum coverage for 25 μm [1.0 mil] thickness ^{a)}	< 11 400 cm^2 [< 12 ft^2]
Storage Temperature Limits	-40 to +40 $^{\circ}\text{C}$ [-40 to +104 $^{\circ}\text{F}$]

TEMPERATURE SERVICE RANGES

Properties	Value
Service Temperature	-23 to +200 $^{\circ}\text{C}$ [-10 to +392 $^{\circ}\text{F}$]
Maximum Withstand Temperature	+240 $^{\circ}\text{C}$ [+464 $^{\circ}\text{F}$]

a) Theoretical coverage per 40g tube assuming 100% transfer efficiency.

PRINCIPAL COMPONENTS

Name

High Temperature, Synthetic Oil (Non-silicone based)
Carbon Black

CAS NUMBER

proprietary
1333-86-4

PROPERTIES

Electric Properties	Value
Volume resistivity (ρ^{V})	82 $\Omega\cdot\text{cm}$
Volume Conductivity (σ^{V})	0.012 S/cm
Surface resistivity (ρ^{S})	271 Ω/sq
Surface Conductivity (σ^{S})	0.037 S/sq

Physical Properties	Value
Color	Black
Odor	Odorless
Density @25 $^{\circ}\text{C}$	1.38 g/mL
Oil viscosity index ^{a,b)}	> 110
Viscosity	Paste-Like
Pour Point ^{a)}	≥ -34 $^{\circ}\text{C}$ [≥ 90 $^{\circ}\text{F}$]
Fire Point ^{a)}	~ 300 $^{\circ}\text{C}$ [~ 572 $^{\circ}\text{F}$]
Flash Point ^{a)}	> 290 $^{\circ}\text{C}$ [536 $^{\circ}\text{F}$]
Lubricant	Yes (above -23 $^{\circ}\text{C}$)
Bleed resistant	Yes
Run resistant	Yes
Corrosive	No

a) Value based on synthetic oil component. b) High oil viscosity index of over 100 indicates small oil viscosity changes with temperature.

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume	Net Weight
847-25ML	Grease	25 mL 0.8 fl oz	26 g 0.8 oz
847-1P	Grease	466 mL 15.7 fl oz	500 g 16 oz
847-1G	Grease	3.7 L 1.0 gal	4.0 kg 8.9 lb

THERMALLY CONDUCTIVE GREASES

SILICONE HEAT TRANSFER COMPOUND

DESCRIPTION

The 860 Silicone Heat Transfer Compound is a low thermal resistance grease with a silicone base that is electrically insulating and non-corrosive. It is used to improve the thermal interface contact conductivity between heat sinks, LEDs, motors, and heat-generating electronic components such as CPUs, GPU chipsets, power components, and so on. It improves the thermal interface between irregular and pitted surfaces.

BENEFITS AND FEATURES

- Good thermal conductivity
- Non-bleeding
- Lowers the contact resistance between irregular surfaces.
- Extends the life of electronic components
- High dielectric strength
- Safe on plastics

PRINCIPAL COMPONENTS

Name	CAS NUMBER
Polydimethyl siloxane fluids	proprietary
Zinc oxide (thermally conductive filler)	1314-28-1
Amorphous silica (filler)	1344-28-1

APPLICATION AND STORAGE CONDITIONS

Properties	Value
Shelf Life	5 year
Storage Temperature Limits	-10 to +40 °C [14 to +104°F]

TEMPERATURE SERVICE RANGES

Properties	Value
Service Temperature	-40 to +200 °C [-40 to +392 °F]
Maximum coverage for 254 μm [1.0 mil] thickness ^{a)}	<118 cm ² [<0.127 ft ²]

a) Theoretical coverage per 3 mL [0.1 fl oz] assuming 100% transfer efficiency.

PROPERTIES

Conductivity Properties	Method	Value
Thermal Conductivity @25 °C	Hot Wire Method Heat Flow	0.66 W/(mK) 4.6 Btuin/(hft ² °F)
Volume resistivity(ρ _v)		1.5 × 10 ¹⁵ Ω/cm ³
Dielectric strength @ 0.254 mm [0.01 mil]	ASTM E 1461	16 kV/mm [400 V/mil]
Dielectric Constant	ASTM D 150	3.81
Dissipation Factor	"	0.0032

Physical Properties	Method	Value
Color		White
Filler		Zinc oxide, Silica
Odor		Orderless
Density @25 °C		2.3—2.4 g/mL
Drop Point	ASTM D 566	>260°C [>500 °F]
Corrosivity		Non-corrosive
%Evaporation weight loss @ 200 °C, 24 h		<2%
Lubricant		No
Bleed @200 °C, 24 h		≤2% by weight

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume		Net Weight		Transport Weight	
		mL	fl oz	g	oz	kg ^{a)}	lb
860-4G	Pouch	1.7 mL	0.06 fl oz	4 g	0.13 oz	0.56 kg ^{a)}	1.2 lb
860-60G	Jar	25 mL	0.85 fl oz	60 g	1.8 oz	0.56 kg ^{a)}	1.3 lb
860-150G	Tube	62.5 mL	2.11 fl oz	150 g	4.82 oz	0.18 kg	0.40 lb
860-1P	Can	417 mL	14.1 fl oz	1.0 g	2.2 lb	1.06 kg	2.34 lb

a) Case pack of 100 pouches

THERMALLY CONDUCTIVE GREASES

SUPER THERMAL GREASE II (1.8 W/(m·K))

DESCRIPTION

The 8616 Super Thermal Grease is a low thermal resistance grease with a synthetic oil base that is electrically insulating and non-corrosive. It is used to improve the thermal interface contact conductivity between heat sinks, LEDs, motors, and heat-generating electronic components such as CPUs, GPU chipsets, power components, and so on. It improves the thermal interface between irregular and pitted surfaces.

BENEFITS AND FEATURES

- Amazing thermal conductivity 1.8 W/(m·K)
- Silicone Free and non-bleeding
- Excellent Corrosion resistance—Passed ASTM B 117 1000 hours
- Lowers the contact resistance between irregular surfaces.
- Extends the life of electronic components
- High dielectric strength
- Safe on plastics

AVAILABLE SIZES

Catalog Number	Sizes Available	Description
8616-3ML	8.2 g (0.3 oz)	Syringe
8616-25ML	25 ml (1 oz)	Tub
8616-85ML	85 ml (3.0 oz)	Tube
8616-1P	1 pint (454 mL)	Tub
8616-1G	4L (1 gal)	Tub

APPLICATION AND STORAGE CONDITIONS

Properties	Value
Shelf Life	5 year
Storage Temperature Limits	-10 to +40 °C [14 to +104°F]

TEMPERATURE SERVICE RANGES

Properties	Value
Service Temperature	-68 to +165 °C [-90 to +329 °F]
Maximum coverage for 25 μm [1.0 mil] thickness ^{a)}	<1 180cm ² [<0.64 in ²]

a) Theoretical coverage per 3 mL [0.1 fl oz] assuming 100% transfer efficiency.

PROPERTIES

Conductivity Properties	Method	Value
Thermal Conductivity @25 °C	ASTM E 1461	1.8 W/(m·K) 12 Btu·in/(h·ft ² ·°F)
Volume resistivity(ρ _v) ^{a)} Dielectric strength		test pending test pending

Physical Properties	Method	Value
Color Filler		White, silvery cream-like Aluminum oxide, zinc oxide, and boron nitride
Odor		Oderless
Density @25 °C		2.74 g/mL
Viscosity @25 °C [77 °F] ^{a)}		2 900 000 cP
Drop Point	ASTM D 2265	>300°C [>572 °F]
Cone Penetration (worked × 60 strokes)	ASTM D 217	287
Oil Separation (Boeing test) ^{b)} Salt Spray Corrosion Resistance ^{c)}	ASTM B 117	None Pass
Corrosivity		Non-corrosive
%Evaporation loss @ 25 °C, 44 h @ 204 °C, 44 h		0% (wt) 5% (wt)
VOC (Volatile Organic Compound) ^{d)} Lubricant	Estimated	5% to 18% No
Bleed resistant		Yes

a) Brookfield viscometer @ 1 rpm with spindle # 07 b) After ten cycles from -40 °C to 121 °C. c) Aluminum 2024 coupons with 254 μm [10 mil] film thickness and 1000 hours exposure to 5% salt spray d) According to WHIMS regulation

Synthetic Oil Properties	Method	Value
Oil viscosity index ^{a)} Fire Point ^{b)} Flash Point	ASTM D 2270 ASTM D 92 ASTM D 92	>110 321 °C [559 °F] >290 °C [550 °F]

Note: Values based on synthetic oil component only. a) High oil viscosity index of more than a 100 indicate small oil viscosity change with temperature. b) Temperature at which oil will continue to burn for at least 5 s after ignition with an open flame.

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume	Net Weight
8616-3ML	Grease	3 mL 0.1 fl oz	8.0 g 0.2 oz
8616-25ML	Grease	25 mL 0.8 fl oz	67 g 2.1 oz
8616-85ML	Grease	86 mL 2.0 fl oz	233 g 7.4 oz
8616-1P	Grease	483 mL 1.63 fl oz	3.4 kg 7.7 lb
8616-1G	Grease	3.7 L 1.0 gal	10 kg 22 lb

THERMALLY CONDUCTIVE GREASES

SUPER THERMAL GREASE III (1.0 W/m·K), NON-RESULATED

DESCRIPTION

The 8617 Super Thermal Grease—Zinc Oxide Free is a low thermal resistance, non-corrosive grease. It uses an extremely thermal stable synthetic oil base that is electrically insulating. It is used to improve the thermal interface contact conductivity between heat sinks, LEDs, motors, and heat-generating electronic components such as CPUs, GPU chipsets, power components, and so on. It improves the thermal interface between irregular and pitted surfaces.

BENEFITS AND FEATURES

- High thermal conductivity (1.0 W/m·K)
- Contains no environmental pollutants
- Ships non-regulated in all sizes
- Silicone and ZnO Free
- Lowers the contact resistance between irregular surfaces.
- Extends the life of electronic components
- High dielectric strength
- Non-bleeding
- Safe on plastics

PRINCIPAL COMPONENTS

Name	CAS NUMBER
Synthetic oil	proprietary
Zinc oxide	1314-28-1
Aluminum oxide	1344-28-1
Carbon Black (conductive filler)	1333-86-4
Graphite (conductive filler)	7782-42-5

APPLICATION AND STORAGE CONDITIONS

Properties	Value
Shelf Life	5 year
Storage Temperature Limits	-10 to +40 °C [14 to +104°F]

TEMPERATURE SERVICE RANGES

Properties	Value
Service Temperature	-68 to +165 °C [-90 to +329 °F]
Maximum coverage for 25µm [1.0 mil] thickness ^{a)}	<33 500 cm ² [<36 ft ²]

a) Theoretical coverage per 85 mL [2.9 fl oz] assuming 100% transfer efficiency.

PROPERTIES

Conductivity Properties	Method	Value
Thermal Conductivity @25 °C	ASTM E 1461	1.0 W/mK ≥6.5 Btuin/(hft ² °F)
Heat Capacity @25 °C		1.11 J/(g·°C)

Physical Properties	Method	Value
Color		White
Filler		Aluminum oxide and boron nitride
Odor		Odorless
Density @25 °C		2.13 g/mL
Viscosity ^{a)}		thixotropic grease
Drop Point	ASTM D 2265	>300°C [≥572 °F]
Oil Separation (Boeing test) ^{b)}		None
Corrosivity		Non-corrosive
Lubricant		No
Bleed Resistant		Yes

a) Brookfield viscometer @ 6 rpm with spindle RV # 7 b) After ten cycles from -40 °C to 121 °C c) Aluminum 2024 coupons with 254 µm [10 mil] film thickness and 1000 hours exposure to 5% salt spray d) According to WHIMS regulation

Synthetic Oil Properties	Method	Value
Oil viscosity index ^{a)}	ASTM D 2270	>110
Fire Point ^{b)}	ASTM D 92	321 °C [559 °F]
Flash Point	ASTM D 92	>290 °C [550 °F]

Note: Values based on synthetic oil component only. a) High oil viscosity index of more than a 100 indicate small oil viscosity change with temperature. b) Temperature at which oil will continue to burn for at least 5 s after ignition with an open flame.

PRODUCT AVAILABILITY

Cat. No.	Form	Net Volume		Net Weight	
8617-85ML	Grease	85 mL	2.9 fl oz	180 g	5.82 oz
8617-1P	Grease	517 mL	1.1 pt	1.10 kg	2.42 lb
8617-5G	Grease	20 L	5.0 gal	42.56 kg	93.8 lb

HEAD OFFICE

9347 - 193rd Street
Surrey, B.C., Canada
V4N 4E7

Phone

1-800-201-8822
1-604-888-3084

Fax

1-604-888-7754

Website

www.mgchemicals.com

MANUFACTURING

1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Phone

1-800-340-0772
1-905-331-1396

Fax

1-905-331-2682

Website

www.mgchemicals.com

CUSTOMER SERVICE

NORTH AMERICA

Phone 1-800-340-0772
Fax 1-800-708-9888

EUROPE

Phone + 44 1663 362888

INTERNATIONAL

Phone 1-604-888-3084
Fax 1-604-888-7754
Email SalesIntl@mgchemicals.com

FOR MATERIAL SAFETY DATA SHEET

visit www.mgchemicals.com/msds

FOR TECHNICAL SUPPORT

visit www.mgchemicals.com/techsupport

call our toll-free line 1-800-340-0772 or +1 905 331-1396