

AEROSOLS

Chem

Formulating the Future

GC Electronics has been the primary supplier of electronics to the electrical and electronic industry since 1930. In 1997, GC upgraded its technology base to include the new environmental laws. GC has come up with a starting line-up of contact cleaners to comply with these laws; Big Bath, and Big Bath ISO. Big Bath ISO is a new contact cleaner that is non-ozone depleting and can be sold to anyone. Plus, it contains no CFC's or HCFC's and is safe on all plastics.

GC offers a complete line of chemicals for use by electronics, electrical and industrial users. In addition to offering the most up-to-date line of aerosols, GC also supplies hard-to-find non-aerosols. GC also offers a broad range of adhesives, heat sink compounds, lubricants and conformal coatings.



Air Jet®

Air Jet is formulated for the dusting and cleaning of components and equipment. Air Jet contains no flammable additives. This high pressure product is used for blowing dust, dirt and residue out of hard to reach places without scratching. Air Jet is an excellent product for both home and office use.

Applications: Computers, keyboards, printers, fax machines, audio equipment, video equipment, typewriters.

Air Jet contains no ozone depleting chemicals. Anti static formulation minimizes the risk of electrostatic damage to sensitive components.

Part No. 19-8508	8 oz. Aerosol
Part No. 19-8475-10	10 oz. Aerosol
Part No. 19-8475	12 oz. Aerosol
Part No. 19-8475-SF	12 oz. Anti-Static Aerosol



Freeze Mist

Freeze Mist is a refrigerant spray used to locate thermal intermittents in electronic components such as capacitors, resistors and semi-conductors. Great for removing chewing gum from fabrics, freezing adhesives for easy removal, protecting heat sensitive components during soldering or for thermal fitting metal parts. The flow control trigger nozzle enables the user to apply the product with pinpoint accuracy and reduce product usage.

Applications: Avionics, electronic equipment, computers.

Freeze Mist contains no ozone depleting chemicals. The anti static formulation minimizes the risk of electrostatic damage to sensitive components.

Part No. 19-8410-10	10 oz. Aerosol
Part No. 19-8410	12 oz. Aerosol
Part No. 19-8410-SF	12 oz. Anti-Static Aerosol



Isopropyl Alcohol (Anhydrous)

%75 VOC Formula

Does an excellent job of dissolving and removing oxides from recording heads, also an excellent degreaser. Leaves no residue. This is not an aerosol, but an aerosol-style can with a snap on top. Suggested for use with swabs, clean cloth, or by immersion or trigger sprayer.

Part No. 10-1507-A	16 fl. oz.
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GC HEAT SINK COMPOUNDS

Meets Your Great Demands

The technology of today's electronic devices has increased current handling capacity. The additional heat buildup places great demands on heat sink materials. GC offers a complete line of heat sink compounds to meet these demands. The HTC product offers over twice the thermal conductivity of conventional products and is available in silicone and non-silicone versions. The water-soluble heat sink grease offers excellent thermal conductivity and easy cleanup. The standard silicone and non-silicone products continue to meet most requirements. See chart for typical properties.



Silicone (Z9)

Industry standard zinc oxide filled silicone heat sink grease for most applications. Will not soften at elevated temperatures or dry out or harden. Meets Mil. Spec. C-47113.

Part No. 10-8109 1 fl. oz. Tube

Part No. 10-8108 6.5 gms. Tube

Part No. 10-8106 1 lb. Jar plastic



HTC (High Thermal Conductivity)

Higher thermal conductivity formula has all the same benefits of conventional heat sink greases, plus is exceptionally stable in high humidity applications.

Part No. 10-8135 Silicone Based, 1 oz. Syringe

Part No. 10-8135-0001 Silicone Based, 1lb. Jar



Type 44 Non-Silicone

Compounded with 100% synthetic base stocks. Features excellent heat transfer efficiency, thermal stability, high flow rate, no separation, bleed or migration typical of silicone based greases. MIL-C-47113 Type 2.

Part No. 10-8118 1/2 fl. oz. Jar

Part No. 10-8120 1 fl. oz. Tube

Part No. 10-8126 1 lb. Jar

Heat Sink Properties (Typical)

Tests	Test Methods	10-8106 10-8108 10-8109 Standard Silicone	10-8118 10-8120 10-8126 Standard Non-Silicone	10-8135 H.T.C. Silicone
Appearance	Visual	White Paste	White Paste	Off-White Paste
Consistency Penetration 60 Strokes @ 77°F	ASTM D-217	340	260	250-350
Specific Gravity	ASTM D-70	2.2	2.5	2.7
Bleed, 24 Hrs. %Wt. 150°C 200°C	FTM-321 PTM-791.321	0.50	<0.5	0.3
Evaporation, 24 Hr. %Wt. 150°C 200°C	FTM-321 PTM-791.321-3M	0.50	0.1	0.3
Thermal Conductivity CAL/SEC/cm ° C	Modified DSC	1.8 x 10 ⁻³	1.8 x 10 ⁻³	
CAL/SEC cm °C	Hot Wire Method			4.35 x 10 ⁻³
Dielectric Strength 0.050" gap volts/mil.	ASTM D-149	400	420	343
Dielectric Constant 1000 Hz	ASTM D-150	4.9	4.5	5.14
Dissipation Factor 50 Hz, Ohm-cm 1,000 Hz, Ohm-cm	ASTM D-150	0.005 0.001	0.0029 0.0029	0.0031
Volume Resistivity Ohm-cm	ASTM D-257	1.96 x 10 ¹⁵	2 x 10 ¹⁵	1 x 10 ¹⁵
Operating Range		-67°F to 400°F	-22°F to 390°F	-55°C to 205°C
Arc Resistance, RT Unit: SEC	ASTM D-495	77	130	250
Shelf Life Months		60	60	60

SOLDER FLUX



Liquid Solder Flux



Completely non-corrosive liquid solder flux consisting of a solution of special rosin in alcohol. Contains no traces of acids or chlorides and is completely safe to use on even the most delicate electronic equipment. Will work also with Lead Free solder.

Part No. 10-4202	2 fl. oz. Bottle
Part No. 10-4216	16 fl. oz. Bottle



Soldering Paste



A strong flux for soldering sheet metal parts, bus wires to steel chassis, tinning and cleaning of soldering iron tips, etc. Not recommended for electronic or printed circuit soldering.

Part No. 10-1207	2 fl. oz. Bottle
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Solder Flux



A flux for all metals, as effective as acid or chloride types but non-corrosive. Solders even hard-to-solder metals such as aluminum, zinc-based alloys, steel, etc. Ideal for soldering bus and ground wires to aluminum and steel chassis, to hermetically seal lids to metal cases, for pot-tinning of copper and brass parts, etc. Not recommended for electronic wiring, including printed circuits.

Part No. 10-200	2 fl. oz. Bottle
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Water Removable Soldering Paste



Lubricates, cleans, fluxes and rinses away.

Part No. 10-202	2 fl. oz. Bottle
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SPECIALTY CHEMICALS



Flux Remover and Cleaner



Convenient, fast and easy to use. Removes all types of organic flux. Pinpoint applicator supplied. Non ODC 75% VOC.

Part No. 22-271-B	16 oz. Aerosol
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High Voltage Putty



Silicone rubber compound with excellent insulating characteristics. It will never harden, will not shrink and has good adhesive properties. Provides a corona and arc suppressing coating in high voltage systems. Especially useful for coating sharp points, edges or corners. Also useful to form gaskets and seals where a putty-like, non-hardening property is desired. (Approx. 550 Volts/MIL Di-electric strength).

Part No. 10-8880	1-1/4 oz. (1" wide x 1/4" thick x approx. 18" in length)
Part No. 10-8882	1/2 lb. tub

CHEMICAL SPECIFICATION MATRIX (Cont.)

Potting Compound Specifications

[^] 0 to 120°F Application T

Part No.	MSDS No.	Description	Contents	Base	Color	HMIS Flammability Rating	Temperature Dielectric Strength	Curing/ Drying Time	Suggested Solvent	Shelf Life Months*	DOT Shipping
19-823 19-824 19-824-2G	120	GC Potting Epoxy	8 oz kit 500 gram kit 2 gal kit	Bisphenol-A (Resin) Polyimide Blend (Hardener)	Black	1	-40 to 300°F 410V/mil	24 Hrs @77 F 1 Hr @ 150 F 10 min @225 F	None	12	Not Regulated
19-160	276	GC Electronic Grade Potting Silicone	10.2 Caulk Tube	Organopolysiloxane	Clear	1 Open Cup 2 Closed Cup	452V/mil [^]	24 hrs @77°F Skin Over 40 min.	Xylol, Toluol, Mineral Spirits	12	Not Regulated
19-161	277	Thermally Conductive Potting Epoxy	8 oz kit	Bisphenol A Type Resin	Black	1	40 to 300°F 400V/mil	24 to 72 hrs @77°F 3 Hr @ 149°F, 30 min @ 212°F	None	12	Corrosive

Solder Flux Specifications

Part No.	MSDS No.	Description	Contents	Base	Color	HMIS Flammability Rating	Suggested Solvent	Shelf Life Months*	DOT Shipping
10-4202 10-4216	112	Liquid Solder Flux	2 fl. oz bottle 16 fl. oz can	Rosin & Alcohol	Clear to Lt. Straw	3	Alcohol Dried Warm Water @ 125-150°F	36	ORM-D
10-200	142	Solder Flux	2 fl. oz bottle	Monoethanolamine Drethandamine	Clear to Lt. Yellow	0	None	42	ORM-D
10-1207	123	Soldering Paste	2 fl. oz bottle	Petrolatum	Amber	0	None	36	Not Regulated
10-202	113	Water Soluble	2 fl. oz bottle	Rosin	Milky White	1	None	42	ORM-D

Flux Removers Specifications

Part No.	MSDS No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
19-229-A 22-271-A	313	Flux Remover and Cleaner II	16 fl oz can 16 oz aerosol	Trichloroethylene & Isopropanol	Clear	1	1.1	48	ORM-D
19-7522-A	310	Static-Free High Strength Flux Remover	18 oz aerosol	Trichloroethylene & Isopropanol	Clear	1	1.34	42	ORM-D

Solvents Specifications

Part No.	MSDS No.	Description	Contents	Base	Color	HMIS Flammability Rating	Used For	Shelf Life Months*	DOT Shipping
10-4102	211	Q Dope Thinner	2 fl. oz.	Toluene	Clear	3	Polystyrene	42	ORM-D
10-312 10-320 10-321	102	Radio-TV Cement	2 fl. oz. 16 fl. oz. 1 gal.	Acetone Acetate	Clear	4	Lacquer Type Cements	42	ORM-D Flammable Liquid
10-6702	226	Paint Thinner	2 fl. oz.	Mineral Spirits and Toluene	Clear	3	Paint and Varnish Base	42	ORM-D
22-209	214	Print Kote Solvent	2 fl. oz.	Toluene	Clear	3	Silicone	42	ORM-D

Specialty Products Specifications

Part No.	MSDS No.	Description	Contents	Base	Color	HMIS Flammability Rating	Temperature Dielectric Strength	Shelf Life Months*	DOT Shipping
10-8880 10-8882	207	High Voltage Putty	1 1/4 oz 8 oz	Silicone Rubber Compounds	Clear	0	-65 to 250°F 550V/mil	36	Not Regulated
10-8602	118	Belt and Drive Non-Slip	2 fl. oz. bottle	Alcohol	Clear to Lt. Brown	3	None	36	ORM-D
10-8101 10-8102 10-568	206	Silicone Compound	1 fl. oz. 1 gal 1/3 oz.	Silicone Grease	Clear Gel	0	-40 to 400°F 0.1" Gap, 600V/mil 615V/mil @ 10 mil	60	Not Regulated

* Note: Shelf Life is determined by the Date Of Manufacture (DOM) located on the product. If a product has a shelf life of 12 months, a closed container is good for one year past the DOM.

SPECIALTY CHEMICALS (Cont.)

Chem



Silicone Dielectric Compound

Soft, inert silicone grease with excellent dielectric properties. Usable over a wide range of temperatures. Its consistency is vaseline-like and it is clear translucent in color. It provides an excellent dielectric coating which excludes moisture and prevents high voltage arcing. Applicable to components in the high voltage section of TV receivers. Protects ignition systems in automobiles and boats, in addition to providing an outstanding corrosion resistant coating on exposed metal surfaces, such as TV antenna terminals as well as general rustproofing. This compound also makes an excellent lubricant for rubber or plastic.

"Z5"

Part No. 10-8101 1 fl. oz. Tube
 N.S.N. 6850-00-268-7963

Part No. 10-8102 1 gal. Can

Part No. 10-568 1/3 fl. oz. Chem-O-Jector



Belt & Drive Non-Slip

Prevents slippage in mechanical or electro-mechanical devices which are driven with cords, belts, pulleys and drives. Restores proper functions on belts and drive pulleys in turntables, record changers and tape recorders, especially where the rubber parts have hardened and/or become slick and cause slippage.

Part No. 10-8602 2 fl. oz. Bottle w/ Brush

ACCESSORIES



~~Part No. 19-780~~



Part No. 19-781

Squeeze Bottle & Squeeze Riser

These reliable bottles accurately dispense solvents in the required amounts in the proper location. For use with GC Bulk Chemicals, wipes and brushes. Can be used safely with all GC chemicals. The squeeze riser professionally dispenses chemicals without using an aerosol.

~~Part No. 19-780~~ 4 oz.
~~Squeeze Bottle~~
Part No. 19-781 4 oz.
 Squeeze Riser



GC Touch Dispenser

Stops waste. Dispense only as much fluid as needed for the job. Saves time and effort. No stopper or cap to remove. One-handed touch on the dish dispenses the required amount of fluid, leaving the other hand free. Prevents contamination. Liquid in bottle stays clean until used. Fluid pumped into dish doesn't drip back into bottle. Hinged lid protects dish when not in use. Use with all GC cleaner/degreaser and defluxing solvents. Not for use with iodine, acids or bases.

Part No. 19-764 4 oz. Bottle with Pump
~~**Part No. 19-766** 6 oz. Bottle with Pump~~
Part No. 19-768 8 oz. Bottle with Pump