

CHEMICAL SPECIFICATION MATRIX

Adhesives Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Curing/ Drying Time	Suggested Solvent	Shelf Life Months*	Dot Shipping
10-114 19-822	50	Quik Stik	2-1/2 fl. oz. 30 cc.	Mod. Epoxy	Clear	1	Mixed 1.16	20-30 mins	Acetone/ MEK	12	Not Regulated
10-100	50	Epoxy Super Glue	Pkg. 2, 3/4 fl.oz	Bisphenol-A (Resin) Polyamide Blend (Hardener)	Clear/Amber	1	Mixed 1.10	Hard 24 hrs	None	12	Not Regulated
10-347	50	Epoxy Glue	Pkg. 2, 2 fl. oz	Bisphenol-A (Resin) Polyamide Blend (Hardener)	Gray	1	Mixed 1.25	Hard 24 hrs	None	36	Not Regulated
19-2092	50	Conductive Epoxy	6 gram kit	Silver Epoxy filled	Silver	1	Mixed 3.9	24-72 Hrs @77 F 1 Hr. @ 140 F	None	12	Not Regulated
19-348	50	Epoxy Putty	4 oz	Epoxy Resin	Gray	1	1.5	20 min.	None	36	Not Regulated
19-115	51	GR-R-RIP	.101 fl oz	Ethyl Cyanoacrylate	Clear	2	1.05	15 to 60 secs.	Acetone	12	Not Regulated
19-117	51	GELWELD	.101 fl. oz	Ethyl Cyanoacrylate	Clear	2	1.04	15 to 60 secs.	Acetone	12	Not Regulated
10-120	51	GC Super Glue	.075 fl. oz	Ethyl Cyanoacrylate	Clear	2	1.05	15 to 60 secs.	10-312 or lacquer thinner	12	Not Regulated
10-128	51	GC Super Adhesive	1 fl. oz	Ethyl Cyanoacrylate	Clear	2	1.05	15 to 60 secs.	Acetone	12	Not Regulated
10-327	52	Gen. Purpose Plastic Cement II	2 fl. oz	Ethyl Acetate Nitrocellulose	Amber	3	0.9	10 to 15 mins.	10-312 or Lacquer Thinner	36	ORM-D
10-4302 10-4308	52	GC Bond	2 fl. oz	Synthetic Thermoplastic Resin	Tan	3	0.87	20 to 30 mins.	MEK	36	ORM-D
10-302 10-310	52	Service Cement	2 fl. oz 1 gal.	Nitrocellulose Lacquer	Clear/ Lt. Straw	3	1	20 to 30 mins.	10-312 or Lacquer Thinner	36	ORM-D
10-354	52	Rubber-to-Metal Cement II	2 fl oz		Black	3	0.88		Acetone	36	ORM-D
10-4002	52	Acrylic Cement	2 fl. oz	Acrylic Resin	Clear	3	1.02	8 to 10 mins.	MEK	36	ORM-D
10-4008	52	Acrylic Cement	8 fl. oz	Acrylic Resin	Clear	3	1.02	8 to 10 mins.	MEK	36	ORM-D
10-5802	52	Vinyl Cement	2 fl. oz	Vinyl Resin	Clear	3	0.85	25 mins	Acetone	36	ORM-D

Lubricants Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Viscosity	Useful Temp. Range	Shelf Life Months*	DOT Shipping
19-2302	48	White Lithium Grease	1-3/4 fl. oz.	Lithium Soap Grease	Off-White	1	0.924	6.6 CST at 100°C	-35°C to +77°C (-30°F to +170°F)	36	ORM-D
10-1206	48	Luberex	2 fl. oz.	Calcium Sterate Grease	Brown	1	0.910	290-325 at 100°F	-35°C to +77°C (-30°F to +170°F)	36	Not Regulated
10-2610	48	Tunerlub	1-3/4 fl. oz.	Petrolatum	Milky White	1	0.860	5x3 CP at 210°F	-35°C to +77°C (-30°F to +170°F)	36	Not Regulated
10-1223	48	Phonolube	2 fl. oz.	Mineral Oil	Semi-Transparent Tan	1	0.900	750 Sus at 38°C	-35°C to +77°C (-30°F to +170°F)	36	Not Regulated
19-826	48	Conductive Grease Compound	1 oz.	Lithium Soap Grease w/ Zinc & Graphite Filler	Gray/Black	1	1.100	100 Sus at 100°F	-23°C to +163°C (-10°F to +325°F)	∞**	ORM-D
19-821	49	Graphite Lubricant	1-1/8 oz.	Powdered Graphite	Dark Gray	0	2.250		Up to 400°F	42	Not Regulated
10-985	49	Reach-All Pen Oiler	1/2 fl. oz.	Hydrocarbons	Lt. Brown	1	0.930	115 SUS @ 100 F	-25 to +150 F	36	Not Regulated
10-8884	48	Pocket Oiler	.135 fl. oz.	Synthetic Oil	Semi-Transparent Lt. Tan	1	0.925	53.4(38.4C)@210 F	-54°C to +149°C (-65°F to +400°F)	36	ORM-D
10-9410	49	Teles-Oiler	4 fl. oz.	Paraffin Oil	Clear to Lt. Brown	1	0.867	31.5 CS at 40°C	-23°C to +65°C (-9°F to +149°F)	36	Not Regulated
19-070 19-074	49	GC70	10 oz. aerosol 4 oz. aerosol	Naphtha/Quar. Ammonia	Clear Straw.	4	0.750			30	ORM-D
19-601	49	Sili-Spray	4 oz. aerosol	Hydrocarbon Polysiloxane	Clear Amber	3	0.750		-40°C to +85°C (-40°F to +185°F)	30	ORM-D
19-810	49	Dry TFE	4 oz. aerosol	Hexane	White Opaque	4	0.740			60	ORM-D

*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.

**No shelf life if stored above 32°F.

For the latest information—www.gcelectronics.com

All quantities are single; BU's are packages of 10 Unless otherwise noted.

CHEMICAL SPECIFICATION MATRIX (Cont.)

Potting Compound Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Curing/ Drying Time	Suggested Solvent	Shelf Life Months*	DOT Shipping
19-823 19-824 19-824-2G	50	GC Potting Epoxy	8 oz kit 500 gram kit 2 gal kit	Bisphenol-A (Resin) Polyimide Blend (Hardener)	Black	1	Mixed 1.09	24 Hrs @77 F 1 Hr @ 150 F 10 min @225 F	None	12	Not Regulated
19-160	43,51	GC Electronic Grade Potting Silicone	10.2 Caulk Tube	Organopolysiloxane	Clear	1 Open Cup 2 Closed Cup	Uncured clear 1.02	24 hrs @77°F	Xylol, Toluol, Mineral Spirits	12	Not Regulated
19-161	43,51	Thermally Conductive Potting Epoxy	8 oz kit	Bisphenol-A Type Resin	Black	1	Mixed 2.0	24 to 72 hrs @25 C	None	12	Corrosive

Solder Flux Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
10-4202 10-4216	57	Liquid Solder Flux	2 fl. oz bottle 16 fl. oz can	Rosin & Alcohol	Clear to Lt. Straw	3	0.88	36	ORM-D
10-200	57	Solder Flux	2 fl. oz bottle	Monoethanolamine Drethandamine	Clear to Lt. Yellow	0	1.1	42	ORM-D
10-1207	57	Soldering Paste	2 fl. oz bottle	Petrolatum	Amber	0	1.02	36	Not Regulated
10-202	57	Water Soluble	2 fl. oz bottle	Rosin	Milky White	1	1.1	42	ORM-D

Flux Removers Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
19-825-G	47	GC Flux Solv	1 Gallon Can	Hydrocarbon Solvent & Isopropanol.	Clear	3	0.76	42	ORM-D
10-220	47	Flux Remover and Cleaner	2 fl oz bottle	n-Methylpyrrolidome & Methanol	Clear	1	1.1	48	ORM-D
19-229 22-271	47	Flux Remover and Cleaner II	16 fl oz can 16 oz aerosol	Trichloroethylene & Isopropanol	Clear	1	1.1	48	ORM-D
19-7522	47	Static-Free High Strength Flux Remover	18 oz aerosol	Trichloroethylene & Isopropanol	Clear	1	1.1	42	ORM-D
19-272	42,47	Flux Solv 3	16 oz aerosol	Hydrofluorocarbon	Clear	0	Conc. 1.4	36	ORM-D

Solvents Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
10-4102	55	Q Dope Thinner	2 fl. oz.	Toluene	Clear	3	0.870	42	ORM-D
10-312 10-318 10-320 10-321	55	Radio-TV Cement Solvent	2 fl. oz. 8 fl. oz. 16 fl. oz. 1 gal.	Acetone Acetate	Clear	4	0.880	42	ORM-D ORM-D ORM-D Flammable Liquid
10-6702	55	Paint Thinner	2 fl. oz.	Mineral Spirits and Toluene	Clear	3	0.900	42	ORM-D
22-209	55	Print Kote Solvent	2 fl. oz.	Toluene	Clear	3	0.870	42	ORM-D

Specialty Products Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
10-8880 10-8882	57	High Voltage Putty	1 1/4 oz 8 oz	Silicone Rubber Compounds	Clear	0	1.1	36	Not Regulated
10-8602	58	Belt and Drive Non-Slip	2 fl. oz. bottle	Alcohol	Clear to Lt. Brown	3	0.869	36	ORM-D
19-729	58	Re-Grip	1 fl. oz.	Methyl Propasol Acetate	Clear	2	1.1	36	
10-1230	58	Anti-Sieze Compound	1 fl. oz.	Molykote	Black	1	1.1	36	Not Regulated
10-8101 10-8102 10-568	58	Silicone Compound	1 fl. oz. 1 gal 1/3 oz.	Silicone Grease	White Paste	0	1.03	24	Not Regulated
19-1004	57	Static Null	8 oz. Aerosol	Dimethyl Ether & IPA	Clear	4	<1	36	ORM-D

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Silicone Sealants Specifications

Part No.	Page No.	Specific Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Consistency	Tensile Strength	Extension Rate	% Elongation	Shelf Life Months*	DOT Shipping
10-150	53	Silicone Rubber Adhesive/Sealant	3 fl.oz	Vulcanized Silicone	Clear	1	1.03	Non-Slump Paste	220 psi	See Data Sheet	See Data Sheet	18	Not Regulated
19-155	53	Electronic Grade Silicone Sealant/Adhesive	3 fl.oz	Vulcanized Silicone	Clear	1	1.04	Non-Slump Paste	225-275 psi	See Data Sheet	See Data Sheet	12	Not Regulated
19-158	53	Electronic Grade Silicone Sealant/Adhesive	10.2 fl oz	Vulcanized Silicone	White	1	1.04	Non-Slump Paste	225-275 psi	See Data Sheet	See Data Sheet	12	Not Regulated
19-159			2.8 fl oz										
EL-615	53	Silicone Caulk Tube	10.2 fl oz	Vulcanized Silicone	Clear	1	1.03	Non-Slump Paste	220 psi	See Data Sheet	See Data Sheet	18	Not Regulated

Printed Circuit Products Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
22-225 22-226	62	Positive Type Developer Concentrate	2 fl. Oz 6 fl. Oz	Sodium Hydroxide	Milky White	0	1.08	42	ORM-D
22-237 22-238 22-239	62	PC Board Etching Solution	6 fl.oz 32 fl oz 1 gal.	Ferric Chloride & Water	Dark Brown	0	1.42	42	ORM-D
22-240	63	Stripping Solution	2 fl. Oz	MEK & Xylene	Clear	3	0.84	42	ORM-D
22-244	63	Etch Resist Lacquer	2 fl. Oz	Hydrocarbon Solvent	Black	3	0.92	36	ORM-D

Coating Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Drying Time	Curing/Viscosity	Useful Temp. Range	Suggested Solvent	Shelf Life Months*	DOT Shipping
22-023 22-024	63	Silver Print II	1/2 troy oz. 1 troy oz.	Lacquer	Silver	3	1.600	Dry 20-30 min. Force Dry 30 min @ 80°C			Butyl Acetate	12	ORM-D
22-207	63	Nickel Print	2 fl. oz.	Lacquer	Nickel-Gray	3	1.900				Xylene or Cellosolve Acetate	12	ORM-D
10-9002 10-9008	55	Red Insulation Varnish	2 fl. oz. 8 fl. oz.	Alkyd-Resin Based Enamel	Red	3	1.100	Dry 30 mins. Hard 4-8 hrs. @ 25°C/30	#4 Ford Cup 65-85 Sec. @ 25°C	Up to 93°C (200°F)	Use 22-0209	30	ORM-D
22-203	63	Print Kote Conformal Coating	2 fl. oz.	High Polymer Silicone Resin	Clear	3	0.880	Air Dry 15-30 mins.	850 cp @ 25°C	-65°C to 200°C (-85°F to 392°F)	Use 22-0209	12	ORM-D
10-1762 10-1766	56	Insulating Coating	2 fl. oz. 16 fl. oz.	Synthetic Resin in Solvent	Black	3	0.930	12 mins tack free	7,000 - 22,000 cps	-30°F to +200°F	Use 22-0209	12	ORM-D
10-8665 10-8665-5G	56	Acrylic Plastic	11 oz. aerosol 5 Gal.	Polymeric Acrylic Ester	Clear	4	0.740	10 mins tack free	250 CP @ 25°C	Up to 190°C	Use 10-4102	30	ORM-D
10-4702 19-4702	56	Corona Dope	2 fl. oz.	Cellulose Compound	Black	3	0.900	30-60 mins.	220 CP @ 25°C	Up to 340°F	10-0312 or Lacquer Thinner	36	ORM-D
10-5002	56	Red-X Corona Dope	2 fl. oz.	Thixotropic Polyester Enamel	Red	3	1.120	2 hrs.	260 CP @ 25°C	Up to 105°C (220° F)	Xylene	36	ORM-D
10-3702 10-3704 10-3709	56	Q Dope	2 fl. oz. 4 fl. oz. 1 gal.	Styrene	Milky White	3	0.910	2 hrs.			Use 10-4102	36	ORM-D Liquid

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CHEMICAL SPECIFICATION MATRIX (Cont.)

Cleaner Specifications

Part No.	Page No.	Description	Contents	Base	Color	HMIS Flammability Rating	Specific Gravity	Shelf Life Months*	DOT Shipping
19-8508 19-8475-10 19-8475 19-8475-SF	44	Air Jet	8 oz aerosol 10 oz aerosol 12 oz aerosol 12 oz aerosol	Halogenated Hydrocarbons	Clear	0	1.21	60	ORM-D
19-8410-6 19-8410-10 19-8410 19-8410-SF	44	Freeze Mist	6 oz aerosol 10 oz aerosol 12 oz aerosol 12 oz aerosol	Halogenated Hydrocarbons	Clear	0	1.21	60	ORM-D
19-905 19-906	42,45	Big Bath 3 Cleaner/Degreaser	12 oz aerosol 16 oz aerosol	Hydrofluorocarbons		0	1.3	36	ORM-D
19-907	42,45	Big Bath Anti-Static	16 oz aerosol	Hydrofluorocarbons		1	1.3	36	ORM-D
19-801 19-802	46	NPB ³ Cleaner & Degreaser	12 oz aerosol 16 oz aerosol	n-Propyl Bromide		2	1.2	24	ORM-D
19-912 19-913	42,45	Big Bath 3	12 oz aerosol 16 oz aerosol	Hydrofluorocarbons		1	1.3	36	ORM-D
19-724 19-725	45	GC Bath	4 oz aerosol 10 oz aerosol 55 gallon drum	Hydrocarbons	Clear	4	0.72	30	ORM-D
19-723	45	Little Bath	4 oz aerosol	Hydrocarbons	Clear	4	0.72	30	ORM-D
19-638 19-640	45	Jiffy Bath	4 oz aerosol 10 oz aerosol	Hydrocarbons	Clear	4	0.72	30	ORM-D
19-1902 19-1906	46	DE-OX-ID	2 fl oz bottle 4 oz aerosol	Refined Oil in Hydrocarbon Solvent	Light Yellow	4	0.74	30	ORM-D
19-701	46	GC Natural Citrus Degreaser	12 oz aerosol	Citrus Terpene	Light Amber	4	0.7483	30	ORM-D
19-904	45	Big Bath ISO	9 oz aerosol	IsoHexane	Clear	4	0.72	30	ORM-D
10-1507 10-1507-G	44	Isopropyl Alcohol	16 oz can 1 gal.	Isopropyl Alcohol	Clear	3	0.787	42	ORM-D
19-5302 19-5304 19-5302-G	48	VCR/Magnetic Head Cleaner	2 oz bottle 4 oz aerosol 1 gal. Can	Alcohol	Clear	3	0.79	30	ORM-D
10-9082	47	Glass Cleaner	14 oz aerosol	Water & Ammonia	Clear	0	1	36	ORM-D
10-1756	47	Glass Compound	6 oz bottle	Water & Silicone	Clear	2	0.99	36	ORM-D

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CHEMICAL PROGRAMS

Chem

- Aerosol Assortment Program 49-551-A
- 15 Chemical Part Numbers
- 2 Foot Program
- Aerosol Cleaners

Program Contents:

Part No.	Quantity Per Program	Description
10-9082	12	Glass & Plastic Cleaner 19 oz.
19-271	12	Flux Solv ³ 12 oz.
19-272	12	Flux Solv ³ 16 oz.
19-801	12	GC NPB ³ Cleaner & Degreaser 12 oz.
19-802	12	GC NPB ³ Cleaner & Degreaser 16 oz.
19-810	12	Dry TFE 4 oz.
19-904	12	Big Bath [®] ISO
19-906	12	Big Bath ³ Contact Cleaner & Degreaser 16oz.
19-907	12	Big Bath ³ Contact Cleaner Anti-Static 16oz.
19-912	12	Big Bath ³ Contact Cleaner 12 oz.
19-913	12	Big Bath ³ Contact Cleaner 16 oz.
19-8410	12	Freeze Mist 12 oz.
19-8475	12	Air Jet [®] 12 oz.
19-8508	12	Air Jet [®] 8 oz.
22-045	12	Print Kote GC Conformal Coating 11 oz.
49-0520-R	1	Display Rack
GC-0HDR-7877	1	Aerosol Rack Header 29.75"x12"H
GC-PK-7881	1	Packing List



Display Rack Part No. 49-551-A

CHEMICAL PROGRAMS (Cont.)

- Popular Assortment Program 49-554-A
- 63 Chemical Part Numbers
- 4 Foot Program
- Adhesives, Lubricants, Containers, Applicators, PC Board Solutions



Display Rack Part No. 49-554-A

CHEMICAL PROGRAMS (Cont.)

- Popular Assortment Program 49-554-A
- 63 Chemical Part Numbers
- 4 Foot Program
- Adhesives, Lubricants, Containers, Applicators, PC Board Solutions

Program Contents:

Part No.	Quantity Per Program	Description
EL-615	3	Silicone Caulk Tube
8887	3	Chem-O-Jector
10-100	3	Epoxy Super Glue
10-114	3	Quik Stik (Epoxy Cement)
10-120	3	GC Super Glue Regular Formula
10-150	3	Silicone Rubber Adhesive/Sealant
10-200	3	Solder Flux
10-202	3	Water Removable Soldering Paste
10-220	3	Flux Remover & Cleaner II 2 oz.
10-259	3	Assorted Acid Brushes
10-277	3	Poly & Cotton Lint Free Wipes
10-284	3	Needle Tip Chemical Bottle
10-302	3	Service Cement
10-312	3	Radio-TV Cement Solvent
10-347	3	Epoxy Glue
10-568	3	Silicone Compound-Syringe
10-985	3	Reach-All Pen Oiler
10-1206	3	Luberex
10-1207	3	Soldering Paste
10-1223	3	Phonolube
10-1230	3	Anti-Sieze Compound
10-1756	3	GC Glass Treatment Compound 6 oz.
10-1762	3	Insulating Coating 2 oz.
10-2610	3	Tunerlub
10-3702	3	Q-Dope
10-4002	3	Acrylic Cement
10-4102	3	Polystyrene Q-Dope Thinner
10-4202	3	Liquid Solder Flux
10-4302	3	GC Bond
10-4702	3	Corona Dope
10-5002	3	Red-X Corona Dope
10-5802	3	Vinylite Cement
10-8120	3	Type 44 Non-Silicone Heat Sink Compound
10-8132	3	Heat Sink Compound (Water Soluble)
10-8135	3	HTC Heat Sink Compound
10-9002	3	Red Insulating Varnish 2 oz.
10-9008	3	Red Insulating Varnish 8 oz.
10-9410	3	Teles Oiler
19-115	3	GR-R-Rip
19-117	3	Gelweld
19-348	3	Epoxy Putty
19-746	3	GC Wipes
19-753	3	Foam Applicators
19-754	3	Anti-Static Applicators
19-755	3	6" Single Tipped Cotton Applicators
19-759	3	Double Tipped Cotton Applicators
19-764	3	4 oz. Touch Dispenser Bottle with Pump
19-769	3	"The Pump" 3 oz. Pump Bottle
19-774	3	Travel Dispenser (Unfilled)
19-780	3	Squeeze Bottle

Part No.	Quantity Per Program	Description
19-821	3	Graphite Lubricant
19-822	3	Quik Stik Double Syringe .0105oz.
19-823	3	GC Potting Epoxy 4 oz.
19-824	3	GC Potting Epoxy 9 oz.
19-2092	3	Conductive Epoxy
19-2302	3	White Lithium Grease
22-023	3	Silver Print 1/2 oz.
22-203	3	Print Kote Conformal Coating 2 oz.
22-207	3	Nickel Print 2 oz.
22-209	3	Print Kote Solvent
22-237	3	PC Board Etching Solution 6 oz.
22-238	3	PC Board Etching Solution 32 oz.
22-240	3	Stripping Solution
75-2055-R	1	4' Display Rack
GC-PKRM-7882	1	Packing List & Roadmap
GC-0HDR-7869	1	4' Header
75-3001-5R	4	L-Brackets
75-3001-6R	4	2-Sided Tape
49-512-10R	38	6" Hook
49-430-3R	1	Shelf-7 1/2"W x 48"L
49-554-A3	1	Reorder Card Set