


MATERIAL DECLARATION SHEET



Material Number	MF-RHT050			
Product Line	Multifuse			
Compliance Date	2017/7/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.013	Bisphenol A diglycidyl ether resin	1675-54-3	38	4.15%	10.9%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	1.09%	
				Silica Crystalline	14464-46-1	40	4.37%	
				Non-halogen Flame Retardant	trade secret	3	0.33%	
				Iron Oxide Fume	51274-00-1	5.5	0.60%	
				Titanium Dioxide	13463-67-7	3.5	0.38%	
2	Solder	Solder	0.007	Tin	7440-31-5	99.3	5.84%	5.9%
				Copper	7440-50-8	0.7	0.04%	
3	Wire	Copper Wire with Tin coating	0.069	Copper	7440-50-8	23.3	13.50%	57.9%
				Tin	7440-31-5	0.4	0.23%	
				Iron	7439-89-6	76.3	44.20%	
4	Foil	Foil	0.017	Copper	7440-50-8	95	13.64%	14.4%
				Nickel	7440-02-0	5	0.72%	
5	Polymer	Polymer	0.007	PVDF	24937-79-9	99.9	5.87%	5.9%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.005	Carbon black	1333-86-4	100	4.20%	4.2%
7	Additive	Calcium carbonate	0.001	Calcium carbonate	471-34-1	100	0.84%	0.8%
			Total weight (grams)	0.119				

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Important remarks:

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MATERIAL DECLARATION SHEET



Material Number	MF-RHT070		
Product Line	Multifuse		
Compliance Date	2017/07/28		
RoHS Compliant	Yes	MSL	1



No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.011	Bisphenol A diglycidyl ether	1675-54-3	38	2.81%	7.3%
				Diglycidyl Bisphenol A epoxy	25085-99-8	10	0.70%	
				Silica Crystalline	14464-46-1	40	2.95%	
				Non-halogen Flame Retardant	trade secret	3	0.22%	
				Iron Oxide Fume	51274-00-1	5.5	0.41%	
				Titanium Dioxide	13463-67-7	3.5	0.26%	
2	Solder	Solder	0.012	Tin	7440-31-5	99.3	8.00%	8.1%
				Copper	7440-50-8	0.7	0.06%	
3	Wire	Copper Wire with Tin coating	0.060	Copper	7440-50-8	23.3	9.38%	40.2%
				Tin	7440-31-5	0.4	0.16%	
				Iron	7439-89-6	76.3	30.70%	
4	Foil	Foil	0.050	Copper	7440-50-8	95	31.88%	33.6%
				Nickel	7440-02-0	5	1.68%	
5	Polymer	Polymer	0.008	PVDF	24937-79-9	99.9	5.36%	5.4%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.005	Carbon black	1333-86-4	100	3.36%	3.4%
7	Additive	Calcium carbonate	0.003	Calcium carbonate	471-34-1	100	2.01%	2.0%
			Total weight (grams)					
				0.149				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT100			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.035	Bisphenol A diglycidyl ether resin	1675-54-3	38	7.56%	19.9%
				Diglycidyl Bisphenol A epoxy	25085-99-8	10	1.99%	
				Silica Crystalline	14464-46-1	40	7.95%	
				Non-halogen Flame Retardant	trade secret	3	0.60%	
				Iron Oxide Fume	51274-00-1	5.5	1.09%	
				Titanium Dioxide	13463-67-7	3.5	0.70%	
2	Solder	Solder	0.011	Tin	7440-31-5	99.3	6.21%	6.3%
				Copper	7440-50-8	0.7	0.04%	
3	Wire	Copper Wire with Tin coating	0.056	Copper	7440-50-8	23.3	7.41%	31.8%
				Tin	7440-31-5	0.4	0.13%	
				Iron	7439-89-6	76.3	24.28%	
4	Foil	Foil	0.049	Copper	7440-50-8	95	26.45%	27.8%
				Nickel	7440-02-0	5	1.39%	
5	Polymer	Polymer	0.012	PVDF	24937-79-9	99.9	6.81%	6.8%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.008	Carbon black	1333-86-4	100	4.60%	4.6%
7	Additive	Calcium carbonate	0.005	Calcium carbonate	471-34-1	100	2.84%	2.8%
			Total weight (grams)	0.176				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT200/32			
Product Line	Multifuse			
Compliance Date	2017/5/8			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.019	Bisphenol A diglycidyl ether resin	1675-54-3	38	4.31%	11.4%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	1.14%	
				Silica Crystalline	14464-46-1	40	4.54%	
				Non-halogen Flame Retardant	trade secret	3	0.34%	
				Iron Oxide Fume	51274-00-1	5.5	0.62%	
2	Solder	Solder	0.013	Titanium Dioxide	13463-67-7	3.5	0.40%	7.6%
				Tin	7440-31-5	99.3	7.59%	
3	Wire	Copper Wire with Tin coating	0.063	Copper	7440-50-8	0.7	0.05%	37.0%
				Copper	7440-50-8	23.3	8.63%	
				Tin	7440-31-5	0.4	0.15%	
4	Foil	Foil	0.056	Iron	7439-89-6	76.3	28.25%	32.8%
				Copper	7440-50-8	95	31.17%	
5	Polymer	Polymer	0.009	Nickel	7440-02-0	5	1.64%	5.3%
				PVDF	24937-79-9	99.9	5.28%	
6	Carbon Black	Carbon Black	0.006	Proprietary additives	Not to declare	0.1	0.01%	3.5%
				Carbon black	1333-86-4	100	3.53%	
7	Additive	Calcium carbonate	0.004	Calcium carbonate	471-34-1	100	2.35%	2.4%
		Total weight (grams)	0.170					


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT300			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	


No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.066	Bisphenol A diglycidyl ether resin	1675-54-3	38	7.17%	18.9%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	1.89%	
				Silica Crystalline	14464-46-1	40	7.54%	
				Non-halogen Flame Retardant	trade secret	3	0.57%	
				Iron Oxide Fume	51274-00-1	5.5	1.04%	
				Titanium Dioxide	13463-67-7	3.5	0.66%	
2	Solder	Solder	0.101	Tin	7440-31-5	99.3	28.60%	28.8%
				Copper	7440-50-8	0.7	0.20%	
3	Wire	Copper Wire with Tin coating	0.108	Copper	7440-50-8	99.5	30.70%	30.9%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.12%	
4	Foil	Foil	0.050	Copper	7440-50-8	95	13.57%	14.3%
				Nickel	7440-02-0	5	0.71%	
5	Polymer	Polymer	0.012	PVDF	24937-79-9	99.9	3.43%	3.4%
				Proprietary additives	Not to declare	0.1	0.00%	
6	Carbon Black	Carbon Black	0.008	Carbon black	1333-86-4	100	2.29%	2.3%
7	Additive	Calcium carbonate	0.005	Calcium carbonate	471-34-1	100	1.43%	1.4%
			Total weight (grams)	0.350				

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MATERIAL DECLARATION SHEET



Material Number	MF-RHT400			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.064	Bisphenol A diglycidyl ether resin	1675-54-3	38	6.05%	15.9%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	1.59%	
				Silica Crystalline	14464-46-1	40	6.37%	
				Non-halogen Flame Retardant	trade secret	3	0.48%	
				Iron Oxide Fume	51274-00-1	5.5	0.88%	
				Titanium Dioxide	13463-67-7	3.5	0.56%	
2	Solder	Solder	0.118	Tin	7440-31-5	99.3	29.15%	29.4%
				Copper	7440-50-8	0.7	0.21%	
3	Wire	Copper Wire with Tin coating	0.127	Copper	7440-50-8	99.5	31.43%	31.6%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.13%	
4	Foil	Foil	0.059	Copper	7440-50-8	95	13.94%	14.7%
				Nickel	7440-02-0	5	0.73%	
5	Polymer	Polymer	0.016	PVDF	24937-79-9	99.9	3.98%	4.0%
				Proprietary additives	Not to declare	0.1	0.00%	
6	Carbon Black	Carbon Black	0.011	Carbon black	1333-86-4	100	2.74%	2.7%
7	Additive	Calcium carbonate	0.007	Calcium carbonate	471-34-1	100	1.74%	1.7%
			Total weight (grams)	0.402				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT450			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.068	Bisphenol A diglycidyl ether resin	1675-54-3	38	6.33%	16.7%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	1.67%	
				Silica Crystalline	14464-46-1	40	6.67%	
				Non-halogen Flame Retardant	trade secret	3	0.50%	
				Iron Oxide Fume	51274-00-1	5.5	0.92%	
				Titanium Dioxide	13463-67-7	3.5	0.58%	
2	Solder	Solder	0.115	Tin	7440-31-5	99.3	27.99%	28.2%
				Copper	7440-50-8	0.7	0.20%	
3	Wire	Copper Wire with Tin coating	0.123	Copper	7440-50-8	99.5	30.00%	30.1%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.12%	
4	Foil	Foil	0.057	Copper	7440-50-8	95	13.27%	14.0%
				Nickel	7440-02-0	5	0.70%	
5	Polymer	Polymer	0.021	PVDF	24937-79-9	99.9	5.14%	5.1%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.014	Carbon black	1333-86-4	100	3.43%	3.4%
7	Additive	Calcium carbonate	0.010	Calcium carbonate	471-34-1	100	2.45%	2.5%
			Total weight (grams)	0.408				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT500			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.115	Bisphenol A diglycidyl ether resin	1675-54-3	38	9.03%	23.8%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	2.38%	
				Silica Crystalline	14464-46-1	40	9.50%	
				Non-halogen Flame Retardant	trade secret	3	0.71%	
				Iron Oxide Fume	51274-00-1	5.5	1.31%	
				Titanium Dioxide	13463-67-7	3.5	0.83%	
2	Solder	Solder	0.126	Tin	7440-31-5	99.3	25.85%	26.0%
				Copper	7440-50-8	0.7	0.18%	
3	Wire	Copper Wire with Tin coating	0.135	Copper	7440-50-8	99.5	27.75%	27.9%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.11%	
4	Foil	Foil	0.063	Copper	7440-50-8	95	12.37%	13.0%
				Nickel	7440-02-0	5	0.65%	
5	Polymer	Polymer	0.021	PVDF	24937-79-9	99.9	4.33%	4.3%
				Proprietary additives	Not to declare	0.1	0.00%	
6	Carbon Black	Carbon Black	0.014	Carbon black	1333-86-4	100	2.89%	2.9%
7	Additive	Calcium carbonate	0.010	Calcium carbonate	471-34-1	100	2.07%	2.1%
			Total weight (grams)	0.484				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT550			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.154	Bisphenol A diglycidyl ether resin	1675-54-3	38	10.28%	27.1%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	2.71%	
				Silica Crystalline	14464-46-1	40	10.83%	
				Non-halogen Flame Retardant	trade secret	3	0.81%	
				Iron Oxide Fume	51274-00-1	5.5	1.49%	
				Titanium Dioxide	13463-67-7	3.5	0.95%	
2	Solder	Solder	0.138	Tin	7440-31-5	99.3	24.08%	24.3%
				Copper	7440-50-8	0.7	0.17%	
3	Wire	Copper Wire with Tin coating	0.148	Copper	7440-50-8	99.5	25.88%	26.0%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.10%	
4	Foil	Foil	0.069	Copper	7440-50-8	95	11.52%	12.1%
				Nickel	7440-02-0	5	0.61%	
5	Polymer	Polymer	0.029	PVDF	24937-79-9	99.9	5.09%	5.1%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.019	Carbon black	1333-86-4	100	3.34%	3.3%
7	Additive	Calcium carbonate	0.012	Calcium carbonate	471-34-1	100	2.11%	2.1%
			Total weight (grams)	0.569				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT600			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.171	Bisphenol A diglycidyl ether resin	1675-54-3	38	10.76%	28.3%
				Diglycidyl Bisphenol A epoxy	25085-99-8	10	2.83%	
				Silica Crystalline	14464-46-1	40	11.32%	
				Non-halogen Flame Retardant	trade secret	3	0.85%	
				Iron Oxide Fume	51274-00-1	5.5	1.56%	
				Titanium Dioxide	13463-67-7	3.5	0.99%	
2	Solder	Solder	0.140	Tin	7440-31-5	99.3	23.02%	23.2%
				Copper	7440-50-8	0.7	0.16%	
3	Wire	Copper Wire with Tin coating	0.151	Copper	7440-50-8	99.5	24.88%	25.0%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.10%	
4	Foil	Foil	0.070	Copper	7440-50-8	95	11.01%	11.6%
				Nickel	7440-02-0	5	0.58%	
5	Polymer	Polymer	0.034	PVDF	24937-79-9	99.9	5.62%	5.6%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.023	Carbon black	1333-86-4	100	3.81%	3.8%
7	Additive	Calcium carbonate	0.015	Calcium carbonate	471-34-1	100	2.48%	2.5%
			Total weight (grams)	0.604				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT650			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.170	Bisphenol A diglycidyl ether resin	1675-54-3	38	10.25%	27.0%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	2.70%	
				Silica Crystalline	14464-46-1	40	10.79%	
				Non-halogen Flame Retardant	trade secret	3	0.81%	
				Iron Oxide Fume	51274-00-1	5.5	1.48%	
				Titanium Dioxide	13463-67-7	3.5	0.94%	
2	Solder	Solder	0.151	Tin	7440-31-5	99.3	23.80%	24.0%
				Copper	7440-50-8	0.7	0.17%	
3	Wire	Copper Wire with Tin coating	0.163	Copper	7440-50-8	99.5	25.74%	25.9%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.10%	
4	Foil	Foil	0.076	Copper	7440-50-8	95	11.46%	12.1%
				Nickel	7440-02-0	5	0.60%	
5	Polymer	Polymer	0.033	PVDF	24937-79-9	99.9	5.23%	5.2%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.022	Carbon black	1333-86-4	100	3.49%	3.5%
7	Additive	Calcium carbonate	0.015	Calcium carbonate	471-34-1	100	2.30%	2.3%
			Total weight (grams)	0.630				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT700			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.185	Bisphenol A diglycidyl ether resin	1675-54-3	38	10.20%	26.8%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	2.69%	
				Silica Crystalline	14464-46-1	40	10.70%	
				Non-halogen Flame Retardant	trade secret	3	0.81%	
				Iron Oxide Fume	51274-00-1	5.5	1.48%	
				Titanium Dioxide	13463-67-7	3.5	0.94%	
2	Solder	Solder	0.162	Tin	7440-31-5	99.3	23.35%	23.5%
				Copper	7440-50-8	0.7	0.16%	
3	Wire	Copper Wire with Tin coating	0.174	Copper	7440-50-8	99.5	25.13%	25.3%
				Nickel	7440-02-0	0.1	0.03%	
				Tin	7440-31-5	0.4	0.10%	
4	Foil	Foil	0.081	Copper	7440-50-8	95	11.17%	11.8%
				Nickel	7440-02-0	5	0.59%	
5	Polymer	Polymer	0.041	PVDF	24937-79-9	99.9	5.94%	6.0%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.028	Carbon black	1333-86-4	100	4.00%	4.0%
7	Additive	Calcium carbonate	0.018	Calcium carbonate	471-34-1	100	2.61%	2.6%
			Total weight (grams)	0.689				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT750			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.253	Bisphenol A diglycidyl ether resin	1675-54-3	38	12.34%	32.5%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	3.25%	
				Silica Crystalline	14464-46-1	40	12.99%	
				Non-halogen Flame Retardant	trade secret	3	0.97%	
				Iron Oxide Fume	51274-00-1	5.5	1.79%	
				Titanium Dioxide	13463-67-7	3.5	1.14%	
2	Solder	Solder	0.167	Tin	7440-31-5	99.3	21.29%	21.4%
				Copper	7440-50-8	0.7	0.15%	
3	Wire	Copper Wire with Tin coating	0.180	Copper	7440-50-8	99.5	22.99%	23.1%
				Nickel	7440-02-0	0.1	0.02%	
				Tin	7440-31-5	0.4	0.09%	
4	Foil	Foil	0.084	Copper	7440-50-8	95	10.24%	10.8%
				Nickel	7440-02-0	5	0.54%	
5	Polymer	Polymer	0.045	PVDF	24937-79-9	99.9	5.77%	5.8%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.030	Carbon black	1333-86-4	100	3.84%	3.8%
7	Additive	Calcium carbonate	0.020	Calcium carbonate	471-34-1	100	2.57%	2.6%
			Total weight (grams)	0.779				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT900			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.399	Bisphenol A diglycidyl ether resin	1675-54-3	38	15.25%	40.2%
				Diglycidyl Bisphenol A epoxy	25085-99-8	10	4.01%	
				Silica Crystalline	14464-46-1	40	16.07%	
				Non-halogen Flame Retardant	trade secret	3	1.20%	
				Iron Oxide Fume	51274-00-1	5.5	2.21%	
				Titanium Dioxide	13463-67-7	3.5	1.40%	
2	Solder	Solder	0.191	Tin	7440-31-5	99.3	19.08%	19.2%
				Copper	7440-50-8	0.7	0.13%	
3	Wire	Copper Wire with Tin coating	0.206	Copper	7440-50-8	99.5	20.62%	20.7%
				Nickel	7440-02-0	0.1	0.02%	
				Tin	7440-31-5	0.4	0.08%	
4	Foil	Foil	0.096	Copper	7440-50-8	95	9.18%	9.7%
				Nickel	7440-02-0	5	0.48%	
5	Polymer	Polymer	0.048	PVDF	24937-79-9	99.9	4.82%	4.8%
				Proprietary additives	Not to declare	0.1	0.00%	
6	Carbon Black	Carbon Black	0.032	Carbon black	1333-86-4	100	3.22%	3.2%
7	Additive	Calcium carbonate	0.022	Calcium carbonate	471-34-1	100	2.21%	2.2%
			Total weight (grams)	0.994				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT1000			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.232	Bisphenol A diglycidyl ether resin	1675-54-3	38	9.85%	25.9%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	2.59%	
				Silica Crystalline	14464-46-1	40	10.37%	
				Non-halogen Flame Retardant	trade secret	3	0.78%	
				Iron Oxide Fume	51274-00-1	5.5	1.43%	
				Titanium Dioxide	13463-67-7	3.5	0.91%	
2	Solder	Solder	0.207	Tin	7440-31-5	99.3	22.97%	23.1%
				Copper	7440-50-8	0.7	0.16%	
3	Wire	Copper Wire with Tin coating	0.223	Copper	7440-50-8	99.5	24.79%	24.9%
				Nickel	7440-02-0	0.1	0.02%	
				Tin	7440-31-5	0.4	0.10%	
4	Foil	Foil	0.104	Copper	7440-50-8	95	11.07%	11.7%
				Nickel	7440-02-0	5	0.58%	
5	Polymer	Polymer	0.061	PVDF	24937-79-9	99.9	6.81%	6.8%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.041	Carbon black	1333-86-4	100	4.58%	4.6%
7	Additive	Calcium carbonate	0.027	Calcium carbonate	471-34-1	100	3.02%	3.0%
			Total weight (grams)	0.895				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT1100			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.395	Bisphenol A diglycidyl ether resin	1675-54-3	38	12.98%	34.2%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	3.42%	
				Silica Crystalline	14464-46-1	40	13.67%	
				Non-halogen Flame Retardant	trade secret	3	1.03%	
				Iron Oxide Fume	51274-00-1	5.5	1.88%	
				Titanium Dioxide	13463-67-7	3.5	1.20%	
2	Solder	Solder	0.230	Tin	7440-31-5	99.3	19.76%	19.9%
				Copper	7440-50-8	0.7	0.14%	
3	Wire	Copper Wire with Tin coating	0.248	Copper	7440-50-8	99.5	21.35%	21.5%
				Nickel	7440-02-0	0.1	0.02%	
				Tin	7440-31-5	0.4	0.09%	
4	Foil	Foil	0.115	Copper	7440-50-8	95	9.45%	9.9%
				Nickel	7440-02-0	5	0.50%	
5	Polymer	Polymer	0.080	PVDF	24937-79-9	99.9	6.91%	6.9%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.053	Carbon black	1333-86-4	100	4.58%	4.6%
7	Additive	Calcium carbonate	0.035	Calcium carbonate	471-34-1	100	3.03%	3.0%
			Total weight (grams)	1.156				


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MATERIAL DECLARATION SHEET



Material Number	MF-RHT1300			
Product Line	Multifuse			
Compliance Date	2017/07/28			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Epoxy coating powder	Epoxy coating powder	0.631	Bisphenol A diglycidyl ether resin	1675-54-3	38	13.76%	36.2%
				Diglycidyl bisphenol A epoxy	25085-99-8	10	3.62%	
				Silica Crystalline	14464-46-1	40	14.49%	
				Non-halogen Flame Retardant	trade secret	3	1.09%	
				Iron Oxide Fume	51274-00-1	5.5	1.99%	
				Titanium Dioxide	13463-67-7	3.5	1.27%	
2	Solder	Solder	0.348	Tin	7440-31-5	99.3	19.84%	20.0%
				Copper	7440-50-8	0.7	0.14%	
3	Wire	Copper Wire with Tin coating	0.374	Copper	7440-50-8	99.5	21.36%	21.5%
				Nickel	7440-02-0	0.1	0.02%	
				Tin	7440-31-5	0.4	0.09%	
4	Foil	Foil	0.174	Copper	7440-50-8	95	9.49%	10.0%
				Nickel	7440-02-0	5	0.50%	
5	Polymer	Polymer	0.102	PVDF	24937-79-9	99.9	5.83%	5.8%
				Proprietary additives	Not to declare	0.1	0.01%	
6	Carbon Black	Carbon Black	0.068	Carbon black	1333-86-4	100	3.90%	3.9%
7	Additive	Calcium carbonate	0.045	Calcium carbonate	471-34-1	100	2.58%	2.6%
			Total weight (grams)	1.742				

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