

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	3856A-L			
Product Line	Sensors & Controls			
Compliance Date	December 31, 2005			
RoHS Compliant	Yes	MSL	N/A	

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	Hex Nut	Brass C260	1.25	Copper	7440-50-8	70	6.51	9.3
				Zinc	7440-66-6	30	2.79	
		Plating	0.09	Nickel	7440-02-0	100	0.669	0.67
2	Lock Washer	Carbon Steel C1050	0.17	Carbon	7440-44-0	0.5	0.0063	1.26
				Iron	7439-89-6	98.7	1.241	
				Manganese	7439-96-5	0.75	0.009	
				Phosphorus	7723-14-0	0.02	0.00025	
				Sulphur	7704-34-9	0.03	0.00038	
		Plating	0.001	Nickel	10101-97-0	100	0.0074	0.0074
3	Bushing	Brass C360	3.500	Copper	7440-50-8	61.5	16.01	26.03
				Iron	7439-89-6	0.2	0.052	
				Lead	7439-92-1	3	0.78	
				Zinc	7440-66-6	35	9.111	
				Misc, not to Declare	Proprietary	0.3	0.078	
		Plating	0.001	Nickel	Proprietary	100	0.007	0.0074
4	Body Molded	Resin	0.777	PBT	26062-94-2	53.7	3.10	5.779
				Glass Fiber	65997-17-3	30	1.734	
				Brominated Epoxy Resin	68928-70-1	10.5	0.607	
				Antimony Trioxide	1309-64-4	3	0.17	
				Pigment Blue 15	147-14-8	0.8	0.046	

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				Further Additives, Not to Declare	Proprietary	2	0.12	
5	C-Ring	Stainless Steel 420	0.068	Carbon	7440-44-0	0.31	0.00157	0.506
				Silicon	7440-21-3	0.44	0.00223	
				Manganese	7439-96-5	0.45	0.00228	
				Phosphorus	7723-14-0	0.02	0.000081	
				Sulfur	7704-34-9	0.01	0.000025	
				Nickel	7440-02-0	0.23	0.0012	
				Chromium	7440-47-3	13.15	0.067	
				Iron	7439-89-6	85.40	0.432	
6	Shaft Inner	Stainless Steel 303	2.383	Carbon	7440-44-0	0.15	0.027	17.723
				Manganese	7439-96-5	2	0.354	
				Phosphorus	7723-14-0	0.2	0.035	
				Sulfur	7704-34-9	0.15	0.027	
				Silicon	7440-21-3	0.9	0.160	
				Chromium	7440-47-3	18	3.190	
				Nickel	7440-02-0	9	1.595	
				Iron	7439-89-6	69	12.229	
				Molybdenum	7439-98-7	0.6	0.106	
7	Shaft Outer	Brass 360	2.88	Copper	7440-50-8	61.50	13.15	21.39
				Iron	7439-89-6	0.20	0.043	
				Lead	7439-92-1	3.00	0.64	
				Zinc	7440-66-6	35.00	7.49	
				Misc, Not to Declare	Proprietary	0.30	0.064	
		Plating	0.015	Nickel	7440-02-0	100	0.11	0.11
8	Ball Bearing X4	Ball Bearing	0.220	Carbon	7440-44-0	1	0.02	1.636
				Chromium	7440-47-3	16.20	0.27	
				Iron	7439-89-6	81.3	1.33	
				Manganese	7439-96-5	0.37	0.01	
				Molybdenum	7439-98-7	0.45	0.01	
				Phosphorus	7723-14-0	0.027	0.0004	
				Sulphur	7704-34-9	0.003	0.00005	

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				Silicon	7440-21-3	0.4	0.01	
				Nickel	7440-02-0	0.2	0.003	
				Copper	7440-50-8	0.05	0.001	
9	Spring	Music Wire SWP-B	0.094	Carbon	7440-44-0	0.84	0.01	0.70
				Silicon	7440-21-3	0.23	0.002	
				Manganase	7439-96-5	0.43	0.00	
				Phosphorous	7723-14-0	0.01	0.0001	
				Sulfur	7704-34-9	0.002	0.00001	
				Copper	7440-50-8	0.001	0.00001	
				Iron	7439-89-6	98.487	0.69	
10	Substrate	Ceramic	0.835	Aluminum Oxide	1344-28-1	96	5.962	6.210
				Silicon Oxide	7631-86-9	2	0.124	
				Magnesium Oxide	1309-48-4	1	0.062	
				Calcium Oxide	1305-78-8	1	0.062	
11	Conductor Ink	Ink	0.008	Silver	7440-22-4	75	0.0446	0.059
				Palladium	7440-05-3	11.5	0.0068	
				Glass w/o Declarables	65997-17-3	6	0.0036	
				Lead in Glass	7439-92-1	0.5	0.0003	
				Dibismuth-Trioxide	1304-76-3	3.2	0.0019	
				Nickel-Monoxide	1313-99-1	0.8	0.0005	
				Zinc Oxide	1314-13-2	0.8	0.0005	
				Ceramic w/o Declarable Substances	66402-68-4	2.1	0.0012	
				Copper	7440-50-8	0.1	0.00006	
12	Resistive Ink	Ink	0.0135	Ruthenium Oxide	12036-10-1	15	0.015	0.100
				Silver	7440-22-4	5	0.005	
				Palladium	7440-05-3	5	0.005	
				Lead in Glass	7439-92-1	43	0.043	
				Aluminum	7429-90-5	5	0.005	
				Bismuth Trioxide	1304-76-3	13	0.013	
				Digadolinium Trioxide	12064-62-9	14	0.014	

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13	Resistive Ink	Ink	0.003	Aluminium Oxide	1344-28-1	4	0.0009	0.022
				Palladium	7440-05-3	2	0.0004	
				Silver	7440-22-4	2	0.0004	
				Ceramic Without Declarable Substances	66402-68-4	43	0.0096	
				Glass Without Declarable Substances	65997-17-3	22	0.0049	
				Lead	7439-92-1	27	0.0060	
14	Terminal Contact	Nickel Silver CDA 770	0.356	Zinc (Metal)	7440-66-6	26.1	0.691	2.648
				Copper	7440-50-8	55	1.456	
				Silver	7440-22-4	0.05	0.001	
				Iron	7439-89-6	0.125	0.003	
				Manganese	7439-96-5	0.25	0.007	
				Nickel	7440-02-0	18	0.477	
				Cobalt	7440-48-4	0.2	0.005	
				Lead	7439-92-1	0.025	0.001	
				Misc., not to Declare	Proprietary	0.25	0.007	
		Plating	0.01	Tin	7440-31-5	100	0.074	0.074
15	Cover	Resin	0.652	PBT	26062-94-2	53.7	2.60	4.85
				Glass Fiber	65997-17-3	30	1.45	
				Brominated Epoxy Resin	68928-70-1	10.5	0.51	
				Antimony Trioxide	1309-64-4	3	0.15	
				Pigment Blue 15	147-14-8	0.8	0.04	
				Further Additives, Not to Declare	Proprietary	2	0.10	
16	Adhesive	Adhesive	0.01	Acrylic Resin	Proprietary	98.8	0.07	0.07
				Misc, not to Declare	Proprietary	1.2	0.001	

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17	Lube	Lube	0.07	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid	68130-53-0	54.4	0.283	0.52
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.030	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.175	
				Polyisobutylene	9003-27-4	6.2	0.032	
18	Lube	Lube	0.01	Siloxanes & Silicones, Me 3,3,3-Trifluoropropyl	63148-56-1	62	0.046	0.074
				Ethene, Tetrafluoro-, Homopolymer	9002-84-0	38	0.028	
19	Epoxy	Epoxy	0.035	Epoxy Resin	25085-99-8	49	0.128	0.26
				Antimony Trioxide	1309-64-4	11	0.029	
				Quartz, (SiO2)	14808-60-7	11	0.029	
				Aluminum Oxide	1344-28-1	11	0.029	
				Kaolin Clay	1332-58-7	9	0.023	
				Mg Alumino Silicate	1302-88-1	9	0.023	
		Total weight	13.446					

This Document was updated on: **02/11/2026**

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.