MICROCHIE

## Package Homogeneous Materials Semiconductor Device Type: Q9C LFBGA-256-14x14x1.56mm-SAC105 'Contained In' 15.94 (mg) Total Die % of Total Weight 2.68 Basic Substance **CAS Number** Sub-Component Weight mg/part nnm Silicon 7440-21-3 Die 2.68 15.94 26827 Silicon 7440-21-3 100.00 Mold Compound Epoxy Resin A Trade Secret 1.32 7.82 13166 Total 100 00 Epoxy Resin B Trade Secret Mold Compound 1.32 7.82 13166 Phenol Resin Trade Secret Mold Compound 1.32 7.82 13166 260.72 Mold Compound % of Total Weight 43.89 (mg) Total Silica, vitreous 60676-86-0 Mold Compound 31.82 189.02 318187 Epoxy Resin A Trade Secret 3.00 7631-86-9 Mold Compound 6.58 39.11 65832 3.00 Silicon dioxide Trade Secret Fpoxy Resin B Aluminium and its compounds Trade Secret Mold Compound 1.32 13166 Trade Secret 3.00 7.82 Phenol Resin 0.22 1.30 1333-86-4 Mold Compound 2194 60676-86-0 72.50 Carbon Black Silica, vitreous 65997-17-3 2.96 17.60 Glass, oxide Silicon dioxide 7631-86-9 15.00 24623-77-6 PCB 1.43 8.51 14319 3.00 Aluminium hydroxide oxide Aluminium and its compounds Trade Secret PCB Bismaleimide-Triazine resin Trade Secret 1.00 5.96 10030 1333-86-4 0.50 Carbon Black 0.67 6731 Enoxy resin Trade Secret PCB 4 00 100 00 Other Trade Secret PCB 0.51 3.06 5147 0.01 0.08 132 Bisphenol A 80-05-7 PCB 185 52 (mg) Total PCB % of Total Weight 31 23 Glass oxide 65997-17-3 PCB 3.56 21.12 35554 Glass, oxide 65997-17-3 9 49 Aluminium hydroxide oxide 24623-77-6 PCB 1 72 10.21 17183 Aluminium hydroxide oxide 24623-77-6 4 59 Bismaleimide-Triazine resin Trade Secret PCB 1 20 7 15 12036 Bismaleimide-Triazine resin Trade Secret 3.21 PCB 0.81 4.80 8077 Epoxy resin Trade Secret Epoxy resin Trade Secret 2.16 Other substances Trade Secret PCB 0.62 3.67 6176 Other Trade Secret 1.65 158 Bisphenol A 80-05-7 PCB 0.02 0.09 Bisphenol A 80-05-7 0.04 Cured Resin Trade Secret PCB 1.64 9.75 16407 Glass oxide 65997-17-3 11.38 Phthalocvanine blue 147-14-8 PCB 0.01 0.03 53 Aluminium hydroxide oxide 24623-77-6 5.50 Trade Secret PCB 0.00 0.02 27 Bismaleimide-Triazine resin Trade Secret 3.85 Organic pigment 7631-86-9 PCB 0.02 240 0.14 Epoxy resin Trade Secret 2.59 7727-43-7 0.83 4.92 8284 Barium sulfate Other substances Trade Secret 1.98 0.10 0.57 959 Talc 14807-96-6 PCB Bisphenol A 80-05-7 0.05 Organic filler Trade Secret PCB 0.03 0.19 320 Cured Resin Trade Secret 5 25 Antifoamer and Leveling agent Trade Secret PCB 0.03 0.21 346 Phthalocvanine blue 147-14-8 0.02 Copper 7440-50-8 PCB 13 26 78 78 132618 Organic pigment Trade Secret 0.01 7440-02-0 PCB 3.84 0.65 6468 Nickel Silica 7631-86-9 0.08 7440-57-5 PCB 0.14 0.83 1402 Gold Rarium sulfate 7727-43-7 2.65 Silver 7440-22-4 Die attach 0.12 0.70 1170 Talc 14807-96-6 0.31 Tetramethylene dimethacrylate 2082-81-7 Die attach 0.01 0.05 82 Organic filler Trade Secret 0.10 Acrylic Esters Trade Secret Die attach 0.00 0.00 6 Antifoamer and Leveling agent Trade Secret 0.11 Copper 7440-50-8 Wire 0.35 2.09 3512 Copper 7440-50-8 42 47 Palladium 7440-05-3 Wire 0.01 0.04 75 Nickel 7440-02-0 2.07 Silver 7440-22-4 Wire 0.00 0.00 0 Gold 7440-57-5 0.45 Other Trade Secret Wire 0.00 0.00 1 Total Tin 7440-31-5 Solder hall 21.39 127.07 213895 Silver 7440-22-4 0.75 % of Total Weight Solder ball 0.22 1.29 2172 (mg) Total Die Attach 0.13 7440-50-8 Solder ball 0.11 0.65 1086 7440-22-4 Copper Tetramethylene dimethacrylate TOTALS: 100.00 594.06 1.000.000 594.06 mg Total Mass The information contained in this Material Content Declaration (MCD) consists of package-level information and is not part number specific. This information is considered to be sufficiently representative of all part numbers for the package type. Microchip Technology Incorporated designs all products to comply with global product material compliance standards, including but not limited to RoHS, REACH, and China RoHS. Additionally, Microchip products are designed to be compliant with IEC62474. For specific compliance information, please check our product material compliance website on microchip.com or ask your local sales representative

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	Acrylic Esters	Trade Secret	0.50	
		Total	100.00	
0.40	() <b>T</b> -4-1	Wr	0/ -47-4-1W-1-1-4	0.36
2.13	(mg) Total	Wire	% of Total Weight	0.36
	Copper	7440-50-8	97.87	
	Palladium	7440-05-3	2.10	
-	Silver	7440-22-4	0.01	
	Other	Trade Secret	0.02	
		Total	100.00	
129.00	(mg) Total	Solder ball	% of Total Weight	21.72
-	Tin	7440-31-5	98.50	
-	Silver	7440-22-4	1.00	
	Copper	7440-50-8	0.50	
594.06	·	Total	100.00	10

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