

**Product / Package Information**

Package	WLCSP
Body Size	
I/O Count	20
Terminal Finish	SnAgCu
MS Number	MS011045B

**Environmental Information**

RoHS Compliant	Yes
High Temperature Compliant	N/A
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

**Materials Declaration**

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	4.07 E-03	100.00	1000000	74.35	743500

**Wafer Bumps**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	1.16E-03	95.50	955000	21.22	212190
Tin & its alloys	Silver	7440-22-4	4.87E-05	4.00	40000	0.89	8888
Tin & its alloys	Copper	7440-50-8	6.09E-06	0.50	5000	0.111	1111
Subtotal			1.22E-03	100.00	1000000	22.22	222188

**UBM**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	1.26 E-04	98.67	986702	2.30	23042
Other inorganic materials	Titanium	7440-32-6	1.70E-06	1.33	13298	0.031	311
Subtotal			1.28 E-04	100.00	1000000	2.34	23353

**Polyimide**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other organic materials	Resin	Proprietary	4.08 E-05	67.95	679500	0.74	7447
Other organic materials	Tetraethylene Glycol Dimethacrylate	109-17-1	8.74 E-06	14.56	145600	0.160	1596
Other organic materials	Trifluoroacetic Anhydride	407-25-0	3.50 E-06	5.83	58300	0.064	639
Other organic materials	4,4'-Oxydiphthalic Anhydride	1823-59-2	3.50 E-06	5.83	58300	0.064	639
Other organic materials	2-Hydroxyethyl Methacrylate	868-77-9	3.50 E-06	5.83	58300	0.064	639
Subtotal			6.00E-05	100.0	1000000	1.10	10960

	Weight (g)	Percentage (%)	PPM
Package Totals	5.48 E-03	100	1000000

Note: The information provided in this declaration are true to the best of ADI's knowledge. ADI derived most of the information listed in this declaration from documents provided by third parties, and assumes no liability to any inaccuracy of such information.



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