

Product / Package Information	
Package	MSOP
Body Size/Pitch	
Lead Count	10
Terminal Finish	100 Sn

Environmental Compliance Information	
RoHS Compliant	Yes
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

### Materials Declaration

#### Molding Compound

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Other inorganic materials	Silica	60676-86-0	1.12 E-02	87.3	873000	44.44		444385
Thermosets	Phenol Resin	Proprietary	5.79 E-04	4.5	45000	2.29		22906
Thermosets	Epoxy Resin 1	Proprietary	3.86 E-04	3.0	30000	1.53		15271
Thermosets	Epoxy Resin 2	Proprietary	3.86 E-04	3.0	30000	1.53		15271
Others	Others	Proprietary	2.57 E-04	2.0	20000	1.02		10181
Other inorganic materials	Carbon Black	1333-86-4	2.57 E-05	0.2	2000	0.10		1018
Subtotal			1.29 E-02	100.0	1000000	51		509032

#### Leadframe

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Copper & its alloys	Copper	7440-50-8	9.56 E-03	97.5	975000	37.80		377956
Copper & its alloys	Iron	7439-89-6	2.30 E-04	2.35	23500	0.91		9110
Copper & its alloys	Zinc	7440-66-6	1.18 E-05	0.12	1200	0.05		465
Copper & its alloys	Phosphorus	7723-14-0	2.94 E-06	0.03	300	0.01		116
Subtotal			9.80 E-03	100	1000000	39		387647

#### Internal Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Precious metals	Silver	7440-22-4	9.90 E-05	100	1000000	0.39		3916

#### External Leadframe Plating

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Tin & its alloys	Tin	7440-31-5	6.83 E-04	100	1000000	2.70		27025

#### Bond Wires

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Precious metals	Gold	7440-57-5	3.10 E-04	99.99	1000000	1.23		12261

#### Chip

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Other inorganic materials	Doped Silicon	7440-21-3	1.00 E-03	100	1000000	3.96		39552

#### Die Attach

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level		
				Percentage (%)	PPM	Percentage (%)	PPM	
Precious metals	Silver	7440-22-4	4.19 E-04	80.50	805000	1.66		16556
Other organic materials	Carbocyclic Acrylates	Proprietary	5.20 E-05	10.00	100000	0.21		2057
Other organic materials	Bismaleimide resin	Proprietary	1.56 E-05	3.00	30000	0.06		617
Other organic materials	2-preponic acid, 2-methyl	68586-19-6	1.56 E-05	3.0	30000	0.06		617
Others	Additive	Proprietary	1.56 E-05	3.0	30000	0.06		617
Other organic materials	Dicumyl peroxide	80-43-3	2.60 E-06	0.5	5000	0.010		103
Subtotal			5.20 E-04	100.00	1000000	2.06		20567

Package Totals	Weight (g)	Percentage (%)	PPM
	2.53 E-02	100	1000000

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ADI Proprietary

**Product / Package Information**

Package	MSOP
Body Size	
Lead Count	10
Terminal Finish	NiPdAu

**Environmental Information**

RoHS Compliant	Yes
High Temperature Compliant	Yes
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

**Materials Declaration**

**Molding Compound**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	60676-86-0	1.12 E-02	87.3	873000	45.67	456728
Thermosets	Phenol Resin	Proprietary	5.79 E-04	4.5	45000	2.35	23543
Thermosets	Epoxy Resin 1	Proprietary	3.86 E-04	3.0	30000	1.57	15695
Thermosets	Epoxy Resin 2	Proprietary	3.86 E-04	3.0	30000	1.57	15695
Others	Others	Proprietary	2.57 E-04	2.0	20000	1.05	10463
Other inorganic materials	Carbon Black	1333-86-4	2.57 E-05	0.2	2000	0.10	1046
Subtotal			1.29 E-02	100.0	1000000	52	523171

**Leadframe**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	9.53 E-03	97.5	975000	38.74	387414
Copper & its alloys	Iron	7439-89-6	2.30 E-04	2.35	23500	0.93	9338
Copper & its alloys	Zinc	7440-66-6	1.17 E-05	0.12	1200	0.05	477
Copper & its alloys	Phosphorus	7723-14-0	2.93 E-06	0.03	300	0.01	119
Subtotal			9.77 E-03	100	1000000	40	397348

**Internal/External Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Nickel & its alloys	Nickel	7440-02-0	1.16 E-04	90.91	927456	0.47	4722
Precious metals	Palladium	7440-05-3	1.01 E-05	7.91	80648	0.04	411
Precious metals	Gold	7440-57-5	1.52 E-06	1.19	12097	0.01	62
Subtotal			1.25 E-04	100.00	1020202	0.52	5194

**Bond Wires**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	3.10 E-04	99.99	1000000	1.26	12602

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	1.00 E-03	100	1000000	4.07	40650

**Die Attach**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	4.19 E-04	80.50	805000	1.70	17016
Other organic materials	Carbocyclic Acrylates	Proprietary	5.20 E-05	10.00	100000	0.21	2114
Other organic materials	Bismaleimide resin	Proprietary	1.56 E-05	3.00	30000	0.06	634
Other organic materials	2-preponic acid, 2-methyl	68586-19-6	1.56 E-05	3.0	30000	0.06	634
Others	Additive	Proprietary	1.56 E-05	3.0	30000	0.06	634
Other organic materials	Dicumyl peroxide	80-43-3	2.60 E-06	0.5	5000	0.01	106
Subtotal			5.20 E-04	100.00	1000000	2.11	21138

<b>Package Totals</b>			<b>Weight (g)</b> 2.46 E-02			<b>Percentage (%)</b> 100	<b>PPM</b> 1000103
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**Product / Package Information**

Package	MSOP
Body Size	
Lead Count	10
Terminal Finish	SnPb

**Environmental Compliance Information**

RoHS Compliant	No
High Temperature Compliant	No
Halogen Free Compliant	Yes
REACH SVHC Compliant	Yes

**Materials Declaration**

**Molding Compound**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Silica	60676-86-0	1.12 E-02	87.3	873000	44.44	444355
Thermosets	Phenol Resin	Proprietary	5.79 E-04	4.5	45000	2.29	22906
Thermosets	Epoxy Resin 1	Proprietary	3.86 E-04	3.0	30000	1.53	15271
Thermosets	Epoxy Resin 2	Proprietary	3.86 E-04	3.0	30000	1.53	15271
Others	Others	Proprietary	2.57 E-04	2.0	20000	1.02	10181
Other inorganic materials	Carbon Black	1333-86-4	2.57 E-05	0.2	2000	0.10	1018
Subtotal			1.29 E-02	100.0	1000000	51	509032

**Leadframe**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Copper & its alloys	Copper	7440-50-8	9.56 E-03	97.5	975000	37.80	377956
Copper & its alloys	Iron	7439-89-6	2.30 E-04	2.35	23500	0.91	9110
Copper & its alloys	Zinc	7440-66-6	1.18 E-05	0.12	1200	0.05	465
Copper & its alloys	Phosphorus	7723-14-0	2.94 E-06	0.03	300	0.01	116
Subtotal			9.80 E-03	100	1000000	39	387647

**Internal Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	9.90 E-05	100	1000000	0.39	3916

**External Leadframe Plating**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Tin & its alloys	Tin	7440-31-5	5.81 E-04	85	850000	2.30	22971
Tin & its alloys	Lead	7439-92-1	1.02 E-04	15	150000	0.41	4054
Subtotal			6.83 E-04	100	1000000	2.70	27025

**Bond Wires**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Gold	7440-57-5	3.10 E-04	99.99	1000000	1.23	12261

**Chip**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Other inorganic materials	Doped Silicon	7440-21-3	1.00 E-03	100	1000000	3.96	39552

**Die Attach**

Description	Substance	CAS#	Weight (g)	Homogeneous Material Level		Component Level	
				Percentage (%)	PPM	Percentage (%)	PPM
Precious metals	Silver	7440-22-4	4.19 E-04	80.50	805000	1.66	16556
Other organic materials	Carbocyclic Acrylates	Proprietary	5.20 E-05	10.00	100000	0.21	2057
Other organic materials	Bismaleimide resin	Proprietary	1.56 E-05	3.00	30000	0.06	617
Other organic materials	2-preponoic acid, 2-methyl	68586-19-6	1.56 E-05	3.0	30000	0.06	617
Others	Additive	Proprietary	1.56 E-05	3.0	30000	0.06	617
Other organic materials	Dicumyl peroxide	80-43-3	2.60 E-06	0.5	5000	0.010	103
Subtotal			5.20 E-04	100.00	1000000	2.06	20567

<b>Package Totals</b>			<b>Weight (g)</b> 2.53 E-02			<b>Percentage (%)</b> 100	<b>PPM</b> 1000000
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