

Supplier Name: **Texas Instruments Inc. (DUNS# 00-732-1904)**  
 Contact Info: [ti.com/support](http://ti.com/support)  
 Form/Declaration Type: **Distribute - RoHS and IEC 62474 DB**  
 Created on: **06/04/2022**

Details for "OPA2992IDSGR"

**Current Product Information**

TI part number	Lead finish/Ball material	MSL rating/peak reflow	Assembly site	Package   Pins	Package body size (mm)	Total device mass (mg)*
OPA2992IDSGR	NIPDAU	Level-1-260C-UNLIM	TI Semiconductor	DSG   8	2x2x0.75	11.8

**\*Total Device Mass**

The summary mass is a rounded value and will be within approximately +/- 10% of the detailed mass value.

**Environmental Ratings Information**

RoHS	REACH	Green	IEC 62474 DB
Yes	Yes	Yes	Yes

**Component Information**

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
<b>Bond Wire</b>							
Copper and Its Alloys	Copper	7440-50-8	0.021003	97.534132	975341	0.178595	1786
Not Categorized	Proprietary Materials		0.000002	0.009288	93	0.000017	0
Precious Metals	Gold	7440-57-5	0.000011	0.051082	511	0.000094	1
Precious Metals	Palladium	7440-05-3	0.000517	2.400854	24009	0.004396	44
Precious Metals	Silver	7440-22-4	0.000001	0.004644	46	0.000009	0
Sub-Total			<b>0.021534</b>	<b>100</b>	<b>1000000</b>	<b>0.183111</b>	<b>1831</b>
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.160064	80	800000	1.361076	13611
Thermoplastics	Epoxy	85954-11-6	0.040016	20	200000	0.340269	3403
Sub-Total			<b>0.20008</b>	<b>100</b>	<b>1000000</b>	<b>1.701345</b>	<b>17013</b>
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	6.8264	97.52	975200	58.047081	580471
Copper and Its Alloys	Iron	7439-89-6	0.161	2.3	23000	1.369035	13690
Copper and Its Alloys	Phosphorus	7723-14-0	0.0021	0.03	300	0.017857	179
Zinc and Its Alloys	Zinc	7440-66-6	0.0105	0.15	1500	0.089285	893
Sub-Total			<b>7</b>	<b>100</b>	<b>1000000</b>	<b>59.523258</b>	<b>595233</b>
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	0.19024	95.12	951200	1.617672	16177
Precious Metals	Gold	7440-57-5	0.00156	0.78	7800	0.013265	133
Precious Metals	Palladium	7440-05-3	0.0082	4.1	41000	0.069727	697
Sub-Total			<b>0.2</b>	<b>100</b>	<b>1000000</b>	<b>1.700665</b>	<b>17007</b>
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	3.428311	87.999999	880000	29.152034	291520
Other Organic Materials	Chlorine	7782-50-5	0.000039	0.001001	10	0.000332	3
Other Plastics and Rubber	Carbon Black	1333-86-4	0.011687	0.299989	3000	0.099378	994
Thermoplastics	Epoxy	85954-11-6	0.455771	11.699011	116990	3.875568	38756
Sub-Total			<b>3.895808</b>	<b>100</b>	<b>1000000</b>	<b>33.127312</b>	<b>331273</b>
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	0.442687	100	1000000	3.76431	37643
Sub-Total			<b>0.442687</b>	<b>100</b>	<b>1000000</b>	<b>3.76431</b>	<b>37643</b>
<b>Total</b>			<b>11.760109</b>			<b>100</b>	<b>1000000</b>

**Important Note**

The ppm calculations are at the **homogeneous material** level and are maximum concentration values. The ppm displayed represents the **homogeneous material** with the highest ppm for that substance. The amount (mg) calculations represent the maximum total amount of each substance within the component.

The ppm calculations are at the **component** level and are average concentration values. The amount (mg) calculations represent the average total amount of each substance within the **component**.

[See Glossary of Terms for more details.](#)

**Important Part Information**

There is a remote possibility the Customer Part Number (CPN) your company uses could reference more than one TI part number. This is due to two or more users (EMSLs or subcontractors) using the same CPN for different TI part numbers. If this occurs, please check your Customer Part Number and cross reference it with the TI part number seen on this page.

**Product Content Methodology**

[For an explanation of the methods used to determine material weights, See Product Content Methodology.](#)

**Material Declaration Certificate for Semiconductor IC Packaged Products**

TI certifies that the material content information provided by TI is representative and accurate to the best of their knowledge based on material information provided by its suppliers and their combination into finished IC packaged products. TI semiconductor products designated to be "Pb-free", "Green" or "RoHS Exempt" fully meets the latest EU RoHS Directive requirements along with other legislation as seen in the former JIG-101 list that has been transferred to the IEC 62474 database.

**Important Information/Disclaimer**

TI bases its material content information on information provided by third-party suppliers and has taken, and continues to take, reasonably diligent steps to provide any required or available information. TI may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers may consider certain information to be proprietary, and thus certain information may not be available for release by TI. The material content information is provided by TI "as is."

[For additional information, please contact TI customer support.](#)

[Signature: \(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to [www.ti.com/ecoinfo](http://www.ti.com/ecoinfo)  
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**RoHS:** Means TI semiconductor products that are compliant with the current RoHS requirement that the maximum concentration values of the ten substances listed in RoHS Annex II do not exceed 0.1 % by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI semiconductor products labeled as "RoHS Compliant" are suitable for use in specified lead-free processes. TI may also reference these types of semiconductor products as "Pb-Free." These TI semiconductor products are also fully compliant with GADSL and the IEC 62474 database for electronic requirements.

**RoHS Exempt:** Means TI semiconductor products that contain lead (Pb) above the RoHS Annex II threshold, but that fall within one of the specific RoHS exemptions noted above or documented in <http://www.ti.com/lit/pdf/szzq088>

**Green:** Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet J5709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (Sb2O3) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.