Supplier Name:	Texas Instruments Inc. (DUNS# 00-732-1904)
Contact Info:	<u>ti.com/support</u>
Form/Declaration Type:	Distribute - RoHS and IEC 62474 DB
Created on:	06/11/2022

## Details for "TPS60210DGSRG4"

### **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)*
TPS60210DGSRG4	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DGS   10	3x3x1	32.2

#### \*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**

			Homogeneous Material Level		Component Level		
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Not Categorized	Proprietary Materials		0.000004	0.004533	45	0.000012	0
Precious Metals	Gold	7440-57-5	0.088235	99.995467	999955	0.274206	2742
Sub-Total			0.088239	100	1000000	0.274219	2742
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.349162	73.000017	730000	1.085084	10851
Thermoplastics	Ероху	85954-11-6	0.129142	26.999983	270000	0.401332	4013
Sub-Total			0.478304	100	1000000	1.486415	14864
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	16.76025	97.5	975000	52.085481	520855
Magnesium and Its Alloys	Magnesium	7439-95-4	0.008595	0.05	500	0.026711	267
Nickel and Its Alloys	Nickel	7440-02-0	0.37818	2.2	22000	1.175262	11753
Other Inorganic Materials	Silicon	7440-21-3	0.042975	0.25	2500	0.133553	1336
Sub-Total			17.19	100	1000000	53.421006	534210
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.228288	95.12	951200	0.709446	7094
Precious Metals	Gold	7440-57-5	0.001872	0.78	7800	0.005818	58
Precious Metals	Palladium	7440-05-3	0.00984	4.1	41000	0.03058	306
Sub-Total			0.24	100	1000000	0.745843	7458
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	10.524046	84.999997	850000	32.705359	327054
Other Plastics and Rubber	Carbon Black	1333-86-4	0.037144	0.300002	3000	0.115432	1154
Thermoplastics	Ероху	85954-11-6	1.820041	14.7	147000	5.656104	56561
Sub-Total			12.381231	100	1000000	38.476895	384769
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.800579	100	1000000	5.595622	55956
Sub-Total			1.800579	100	1000000	5.595622	55956
Total			32.178353			100	1000000

### 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 (EMSIs 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

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For additional information, please contact TI customer support.

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

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 06/11/2022

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 JS709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (Sb203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.