Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)

Contact Info: ti.com/support

Form/Declaration Type: Distribute - RoHS and IEC 62474 DB

Created on: **06/12/2022**

Details for "TPS7A6650HQDGNRQ1"

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)*
TPS7A6650HQDGNRQ1	NIPDAUAG	Level-2-260C-1 YEAR	Ext-Mfg	DGN 8	3x3x1	27.1

*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		0.000006	0.007215	72	0.000022	0
Precious Metals	Gold	7440-57-5	0.083154	99.992785	999928	0.307311	3073
Sub-Total			0.08316	100	1000000	0.307333	3073
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.273825	81.999982	820000	1.01197	10120
Thermoplastics	Ероху	85954-11-6	0.060108	18.000018	180000	0.22214	2221
Sub-Total			0.333933	100	1000000	1.23411	12341
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	10.7408	95.9	959000	39.694559	396946
Magnesium and Its Alloys	Magnesium	7439-95-4	0.0196	0.175	1750	0.072435	724
Nickel and Its Alloys	Nickel	7440-02-0	0.3584	3.2	32000	1.324532	13245
Other Inorganic Materials	Silicon	7440-21-3	0.0812	0.725	7250	0.300089	3001
Sub-Total			11.2	100	1000000	41.391616	413916
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.196157	97.299617	972996	0.724933	7249
Precious Metals	Gold	7440-57-5	0.000605	0.300098	3001	0.002236	22
Precious Metals	Palladium	7440-05-3	0.004234	2.100188	21002	0.015648	156
Precious Metals	Silver	7440-22-4	0.000605	0.300098	3001	0.002236	22
Sub-Total			0.201601	100	1000000	0.745053	7451
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	13.108518	93.500002	935000	48.444887	484449
Other Plastics and Rubber	Carbon Black	1333-86-4	0.070099	0.5	5000	0.259063	2591
Thermoplastics	Ероху	85954-11-6	0.841188	5.999998	60000	3.108762	31088
Sub-Total			14.019805	100	1000000	51.812713	518127
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.220121	100	1000000	4.509177	45092
Sub-Total			1.220121	100	1000000	4.509177	45092
Total			27.05862			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

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

for that substance. The amount (mg) calculations represent the maximum total amount of each substance within the component.

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)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 06/12/2022

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 (CI) 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.