

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: 05/20/2022

Details for "TPS54615PWP64"

**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)*
TPS54615PWP64	NIPDAU	Level-2-260C-1 YEAR	TI TAIWAN A/T	PWP   28	4.4x9.7x1.15	112.9

\*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>							
Aluminum and Its Alloys	Aluminum	7429-90-5	0.00001	0.000113	1	0.000001	0
Copper and Its Alloys	Copper	7440-50-8	0.881378	99.997277	999973	0.780981	7810
Copper and Its Alloys	Iron	7439-89-6	0.000004	0.000454	5	0.000004	0
Other Inorganic Materials	Sulfur	7704-34-9	0.000011	0.000113	1	0.000001	0
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.000003	0.00034	3	0.000003	0
Precious Metals	Silver	7440-22-4	0.000015	0.001702	17	0.000013	0
Sub-Total			<b>0.881402</b>	<b>100</b>	<b>1000000</b>	<b>0.781002</b>	<b>7810</b>
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	1.078001	70.000019	700000	0.955206	9552
Thermoplastics	Epoxy	85954-11-6	0.462	29.999981	300000	0.409374	4094
Sub-Total			<b>1.540001</b>	<b>100</b>	<b>1000000</b>	<b>1.36458</b>	<b>13646</b>
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	41.30184	97.41	974100	36.597163	365972
Copper and Its Alloys	Iron	7439-89-6	1.0176	2.4	24000	0.901686	9017
Copper and Its Alloys	Phosphorus	7723-14-0	0.01272	0.03	300	0.011271	113
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.01272	0.03	300	0.011271	113
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.01272	0.03	300	0.011271	113
Zinc and Its Alloys	Zinc	7440-66-6	0.0424	0.1	1000	0.03757	376
Sub-Total			<b>42.4</b>	<b>100</b>	<b>1000000</b>	<b>37.570232</b>	<b>375702</b>
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	0.722912	95.12	951200	0.640565	6406
Precious Metals	Gold	7440-57-5	0.005928	0.78	7800	0.005253	53
Precious Metals	Palladium	7440-05-3	0.03116	4.1	41000	0.027611	276
Sub-Total			<b>0.76</b>	<b>100</b>	<b>1000000</b>	<b>0.673429</b>	<b>6734</b>
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	51.762294	85.000002	850000	45.866071	458661
Other Nonferrous Metals and Alloys	Metal Oxide	Trade Secret	0.730762	1.2	12000	0.647521	6475
Other Plastics and Rubber	Carbon Black	1333-86-4	0.18269	0.299999	3000	0.16188	1619
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.18269	0.299999	3000	0.16188	1619
Other Plastics and Rubber	Silicone	218163-11-2	1.826904	2.999999	30000	1.618802	16188
Thermoplastics	Epoxy	85954-11-6	6.211475	10.2	102000	5.503928	55039
Sub-Total			<b>60.896815</b>	<b>100</b>	<b>1000000</b>	<b>53.960082</b>	<b>539601</b>
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	6.377087	100	1000000	5.650675	56507
Sub-Total			<b>6.377087</b>	<b>100</b>	<b>1000000</b>	<b>5.650675</b>	<b>56507</b>
<b>Total</b>			<b>112.855305</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 (EMSI 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: \(click here for a fuller statement with a signed certificate\)](#)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality  
 For further environmental statements, please go to [www.ti.com/ecoinfo](http://www.ti.com/ecoinfo)  
 Created on: 05/20/2022

**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 (Sb2O3) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.