

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: 06/12/2022

Details for "TPS77718PWP"

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)*
TPS77718PWP	NIPDAU	Level-2-260C-1 YEAR	TI TAIWAN A/T	PWP   20	4.4x6.5x1.15	74.9

\*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>							
Copper and Its Alloys	Copper	7440-50-8	0.045721	99.989065	999891	0.061077	611
Not Categorized	Proprietary Materials		0.000004	0.008748	87	0.000005	0
Precious Metals	Silver	7440-22-4	0.000001	0.002187	22	0.000001	0
Sub-Total			<b>0.045726</b>	<b>100</b>	<b>1000000</b>	<b>0.061084</b>	<b>611</b>
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.460004	69.999954	700000	0.614501	6145
Thermoplastics	Epoxy	85954-11-6	0.197145	30.000046	300000	0.263358	2634
Sub-Total			<b>0.657149</b>	<b>100</b>	<b>1000000</b>	<b>0.877859</b>	<b>8779</b>
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	27.85926	97.41	974100	37.216082	372161
Copper and Its Alloys	Iron	7439-89-6	0.6864	2.4	24000	0.916935	9169
Copper and Its Alloys	Phosphorus	7723-14-0	0.00858	0.03	300	0.011462	115
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00858	0.03	300	0.011462	115
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00858	0.03	300	0.011462	115
Zinc and Its Alloys	Zinc	7440-66-6	0.0286	0.1	1000	0.038206	382
Sub-Total			<b>28.6</b>	<b>100</b>	<b>1000000</b>	<b>38.205607</b>	<b>382056</b>
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	0.437552	95.12	951200	0.584508	5845
Precious Metals	Gold	7440-57-5	0.003588	0.78	7800	0.004793	48
Precious Metals	Palladium	7440-05-3	0.01886	4.1	41000	0.025194	252
Sub-Total			<b>0.46</b>	<b>100</b>	<b>1000000</b>	<b>0.614496</b>	<b>6145</b>
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	36.017916	85	850000	48.114907	481149
Other Nonferrous Metals and Alloys	Metal Oxide	Trade Secret	0.508488	1.199999	12000	0.679269	6793
Other Plastics and Rubber	Carbon Black	1333-86-4	0.127122	0.3	3000	0.169817	1698
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.127122	0.3	3000	0.169817	1698
Other Plastics and Rubber	Silicone	218163-11-2	1.271221	3.000001	30000	1.698174	16982
Thermoplastics	Epoxy	85954-11-6	4.32215	10.2	102000	5.773789	57738
Sub-Total			<b>42.374019</b>	<b>100</b>	<b>1000000</b>	<b>56.605774</b>	<b>566058</b>
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	2.721228	100	1000000	3.635181	36352
Sub-Total			<b>2.721228</b>	<b>100</b>	<b>1000000</b>	<b>3.635181</b>	<b>36352</b>
<b>Total</b>			<b>74.858122</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's 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.

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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)  
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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 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.