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: 06/08/2022

Details for "TL317PS"

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)*
ı	TL317PS	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	PS 8	5.3x6.2x1.95	198.2

*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							
Copper and Its Alloys	Copper	7440-50-8	0.016039	100	1000000	0.008092	81
Sub-Total			0.016039	100	1000000	0.008092	81
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.223547	79.999928	799999	0.112791	1128
Thermoplastics	Epoxy	85954-11-6	0.055887	20.000072	200001	0.028198	282
Sub-Total			0.279434	100	1000000	0.140989	1410
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	80.834775	97.45	974500	40.785239	407852
Copper and Its Alloys	Iron	7439-89-6	1.9908	2.4	24000	1.004459	10045
Copper and Its Alloys	Phosphorus	7723-14-0	0.024885	0.03	300	0.012556	126
Zinc and Its Alloys	Zinc	7440-66-6	0.09954	0.12	1200	0.050223	502
Sub-Total			82.95	100	1000000	41.852477	418525
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.085608	95.12	951200	0.043194	432
Precious Metals	Gold	7440-57-5	0.000702	0.78	7800	0.000354	4
Precious Metals	Palladium	7440-05-3	0.00369	4.1	41000	0.001862	19
Sub-Total			0.09	100	1000000	0.04541	454
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	100.272596	88	880000	50.592604	505926
Other Plastics and Rubber	Carbon Black	1333-86-4	0.341838	0.3	3000	0.172475	1725
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.626704	0.55	5500	0.316204	3162
Thermoplastics	Epoxy	85954-11-6	12.704994	11.15	111500	6.410313	64103
Sub-Total			113.946132	100	1000000	57.491596	574916
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.914549	100	1000000	0.461436	4614
Sub-Total			0.914549	100	1000000	0.461436	4614
Total			198.196154			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 databases.

Important Information/Disclaimer

Th 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: 06/08/2022

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 J5709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (5b203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.