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

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

06/08/2022

Details for "TL317CLPE3"

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)*
TI 317CI PE3	SN	Level-NC-NC-NC	Ext-Mfg	IP I 3	4.3x4.3x3.6	199.5

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							
Precious Metals	Gold	7440-57-5	0.030689	100	1000000	0.01538	154
Sub-Total			0.030689	100	1000000	0.01538	154
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.182735	71.000066	710001	0.091578	916
Thermoplastics	Epoxy	85954-11-6	0.074638	28.999934	289999	0.037405	374
Sub-Total			0.257373	100	1000000	0.128983	1290
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	80.111661	99.852499	998525	40.14824	401482
Copper and Its Alloys	Iron	7439-89-6	0.08023	0.1	1000	0.040208	402
Copper and Its Alloys	Phosphorus	7723-14-0	0.026075	0.0325	325	0.013068	131
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.012035	0.015001	150	0.006031	60
Sub-Total			80.230001	100	1000000	40.207546	402075
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.001	100	1000000	0.000501	5
Sub-Total			0.001	100	1000000	0.000501	5
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	90.765287	76.85	768500	45.487342	454873
Other Plastics and Rubber	Carbon Black	1333-86-4	0.177161	0.15	1500	0.088785	888
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.590535	0.5	5000	0.295949	2959
Thermoplastics	Ероху	85954-11-6	26.574092	22.5	225000	13.317699	133177
Sub-Total			118.107075	100	1000000	59.189775	591898
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.913521	100	1000000	0.457814	4578
Sub-Total			0.913521	100	1000000	0.457814	4578
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Total			199.539659			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.

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.

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."

I 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 (CI) and Bromine (Br)-based flame retardants meet 15709B 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