

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: 05/06/2022

Details for "TLC2252CD"

**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)*
TLC2252CD	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D   8	3.91x4.9x1.58	107.6

**\*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	0.045429	99.997799	999978	0.04222	422
Precious Metals	Silver	7440-22-4	0.000001	0.002201	22	0.000001	0
Sub-Total			0.04543	100	1000000	0.042221	422
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.237715	79.000017	790000	0.220924	2209
Thermoplastics	Epoxy	85954-11-6	0.06319	20.999983	210000	0.058726	587
Sub-Total			0.300905	100	1000000	0.27965	2797
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	40.49388	96.414	964140	37.633542	376335
Copper and Its Alloys	Iron	7439-89-6	1.092	2.6	26000	1.014865	10149
Copper and Its Alloys	Phosphorus	7723-14-0	0.063	0.15	1500	0.05855	585
Nickel and Its Alloys	Nickel	7440-02-0	0.336	0.8	8000	0.312266	3123
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0042	0.01	100	0.003903	39
Precious Metals	Gold	7440-57-5	0.0042	0.01	100	0.003903	39
Precious Metals	Palladium	7440-05-3	0.00672	0.016	160	0.006245	62
Sub-Total			42	100	1000000	39.033275	390333
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	3.99504	95.12	951200	3.712845	37128
Precious Metals	Gold	7440-57-5	0.03276	0.78	7800	0.030446	304
Precious Metals	Palladium	7440-05-3	0.1722	4.1	41000	0.160036	1600
Sub-Total			4.2	100	1000000	3.903327	39033
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	52.764732	88	880000	49.037626	490376
Other Plastics and Rubber	Carbon Black	1333-86-4	0.17988	0.3	3000	0.167174	1672
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.32978	0.550001	5500	0.306486	3065
Thermoplastics	Epoxy	85954-11-6	6.685531	11.149999	111500	6.21329	62133
Sub-Total			59.959923	100	1000000	55.724575	557246
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	1.094245	100	1000000	1.016952	10170
Sub-Total			1.094245	100	1000000	1.016952	10170
<b>Total</b>			107.600503			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 (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)  
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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 J5709B 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.