

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: 06/13/2022

Details for "UC2845AD8TRG4"

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)*
UC2845AD8TRG4	NIPDAU	Level-1-260C-UNLUM	TI AGUASCALIENTES	D 8	3.91x4.9x1.58	72.6

***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
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.054505	99.998165	999982	0.075112	751
Precious Metals	Silver	7440-22-4	0.000001	0.001835	18	0.000001	0
Sub-Total			0.054506	100	1000000	0.075114	751
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.0158	79	790000	0.021774	218
Thermoplastics	Epoxy	85954-11-6	0.0042	21	210000	0.005788	58
Sub-Total			0.02	100	1000000	0.027562	276
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	24.025981	97.425003	974250	33.109825	331098
Copper and Its Alloys	Iron	7439-89-6	0.591864	2.4	24000	0.815638	8156
Copper and Its Alloys	Phosphorus	7723-14-0	0.003699	0.014999	150	0.005098	51
Copper and Its Alloys	Tin	7440-31-5	0.007398	0.029999	300	0.010195	102
Copper and Its Alloys	Zinc	7440-66-6	0.024661	0.1	1000	0.033985	340
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.007398	0.029999	300	0.010195	102
Sub-Total			24.661001	100	1000000	33.984936	339849
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.037097	95.120513	951205	0.051123	511
Precious Metals	Gold	7440-57-5	0.000304	0.779487	7795	0.000419	4
Precious Metals	Palladium	7440-05-3	0.001599	4.1	41000	0.002204	22
Sub-Total			0.039	100	1000000	0.053745	537
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	36.1	76	760000	49.748839	497488
Other Organic Materials	Carbon Black	1333-86-4	0.1425	0.3	3000	0.196377	1964
Thermoplastics	Epoxy	85954-11-6	9.595	20.2	202000	13.222718	132227
Thermoplastics	Proprietary Non Halide Flame Retardant		1.6625	3.5	35000	2.291065	22911
Sub-Total			47.5	100	1000000	65.458999	654590
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.29	100	1000000	0.399644	3996
Sub-Total			0.29	100	1000000	0.399644	3996
Total			72.564507			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'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.

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: \(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to 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.