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

Contact Info: <u>ti.com/support</u>

Form/Declaration Type: Distribute - RoHS and IEC 62474 DB

Created on: 05/20/2022

#### Details for "REF2930AIDBZR"

#### **Current Product Information**

١	TI part number	Lead finish/Ball material	MSL rating/peak reflow	Assembly site	Package   Pins	Package body size (mm)	Total device mass (mg)*
	REF2930AIDBZR	NIPDAUAG	Level-1-260C-UNLIM	Ext-Mfg	DBZ   3	2.9x1.3x0.95	11.2

#### \*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	0.008605	97.662013	976620	0.07666	767
Precious Metals	Palladium	7440-05-3	0.000206	2.337987	23380	0.001835	18
Sub-Total			0.008811	100	1000000	0.078495	785
Die Attach Adhesive							
Other Inorganic Materials	Aluminum Oxide	1344-28-1	0.023737	30.000126	300001	0.211468	2115
Other Inorganic Materials	Silica	7631-86-9	0.003561	4.500588	45006	0.031724	317
Thermoplastics	Epoxy	85954-11-6	0.051825	65.499286	654993	0.461698	4617
Sub-Total			0.079123	100	1000000	0.704889	7049
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	4.724385	97.41	974100	42.088509	420885
Copper and Its Alloys	Iron	7439-89-6	0.11543	2.38	23800	1.028341	10283
Copper and Its Alloys	Phosphorus	7723-14-0	0.00388	0.08	800	0.034566	346
Zinc and Its Alloys	Zinc	7440-66-6	0.006305	0.13	1300	0.05617	562
Sub-Total			4.85	100	1000000	43.207585	432076
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.14595	97.3	973000	1.300237	13002
Precious Metals	Gold	7440-57-5	0.00045	0.3	3000	0.004009	40
Precious Metals	Palladium	7440-05-3	0.00315	2.1	21000	0.028063	281
Precious Metals	Silver	7440-22-4	0.00045	0.3	3000	0.004009	40
Sub-Total			0.15	100	1000000	1.336317	13363
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	4.753426	87.000001	870000	42.347228	423472
Other Plastics and Rubber	Carbon Black	1333-86-4	0.005464	0.100005	1000	0.048678	487
Thermoplastics	Epoxy	85954-11-6	0.704818	12.899994	129000	6.279069	62791
Sub-Total			5.463708	100	1000000	48.674975	486750
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.673239	100	1000000	5.997738	59977
Sub-Total			0.673239	100	1000000	5.997738	59977
Total			11.224881			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 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
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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 (Sb203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.