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 "TLV2314QDRQ1"

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)*
TLV2314QDRQ1	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	D 8	4.9x3.9x1.75	92

*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	•	-			· · · · · · · · · · · · · · · · · · ·		
Other Nonferrous Metals and Alloys	Yttrium	7440-65-5	0.000001	0.001129	11	0.000001	0
Precious Metals	Gold	7440-57-5	0.088552	99.997741	999977	0.09627	963
Precious Metals	Silver	7440-22-4	0.000001	0.001129	11	0.000001	0
Sub-Total			0.088554	100	1000000	0.096273	963
Die Attach Adhesive	•				· · · · · · · · · · · · · · · · · · ·		
Precious Metals	Silver	7440-22-4	0.121414	80.000264	800003	0.131997	1320
Thermoplastics	Ероху	85954-11-6	0.030353	19.999736	199997	0.032999	330
Sub-Total			0.151767	100	1000000	0.164995	1650
Lead Frame	·	· ·			•		
Copper and Its Alloys	Copper	7440-50-8	28.67088	97.52	975200	31.169891	311699
Copper and Its Alloys	Iron	7439-89-6	0.6762	2.3	23000	0.735139	7351
Copper and Its Alloys	Phosphorus	7723-14-0	0.00882	0.03	300	0.009589	96
Zinc and Its Alloys	Zinc	7440-66-6	0.0441	0.15	1500	0.047944	479
Sub-Total			29.4	100	1000000	31.962563	319626
Lead Frame Plating	•				· · · · · ·		
Nickel and Its Alloys	Nickel	7440-02-0	1.14144	95.12	951200	1.24093	12409
Precious Metals	Gold	7440-57-5	0.00936	0.78	7800	0.010176	102
Precious Metals	Palladium	7440-05-3	0.0492	4.1	41000	0.053488	535
Sub-Total			1.2	100	1000000	1.304594	13046
Mold Compound	•				· · · · · ·		
Other Inorganic Materials	Fused Silica	60676-86-0	53.368107	87.999999	880000	58.019778	580198
Other Plastics and Rubber	Carbon Black	1333-86-4	0.181937	0.3	3000	0.197795	1978
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.333551	0.550001	5500	0.362624	3626
Thermoplastics	Ероху	85954-11-6	6.761982	11.15	111500	7.35137	73514
Sub-Total			60.645577	100	1000000	65.931567	659316
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.496713	100	1000000	0.540008	5400
Sub-Total			0.496713	100	1000000	0.540008	5400
Total			91.982611			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 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 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.