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:	05/30/2022

Details for "DS90UB949TRGCTQ1" **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)*
DS90UB949TRGCTQ1	NIPDAU	Level-3-260C-168 HR	TI PHILIPPINES CLARK A/T	RGC 64	9x9x0.9	182.5

*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	0.582268	97.534942	975349	0.319118	3191
Nickel and Its Alloys	Nickel	7440-02-0	0.000003	0.000503	5	0.000002	0
Not Categorized	Proprietary Materials		0.000066	0.011056	111	0.000036	0
Precious Metals	Gold	7440-57-5	0.000307	0.051425	514	0.000168	2
Precious Metals	Palladium	7440-05-3	0.014323	2.399227	23992	0.00785	78
Precious Metals	Silver	7440-22-4	0.000017	0.002848	28	0.000009	0
Sub-Total			0.596984	100	1000000	0.327183	3272
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	2.580889	80.000006	800000	1.414483	14145
Thermoplastics	Ероху	85954-11-6	0.645222	19.999994	200000	0.353621	3536
Sub-Total			3.226111	100	1000000	1.768103	17681
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	62.299225	99.25	992500	34.143729	341437
Other Nonferrous Metals and Alloys	Chromium	7440-47-3	0.163202	0.26	2600	0.089445	894
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.156925	0.25	2500	0.086004	860
Zinc and Its Alloys	Zinc	7440-66-6	0.150648	0.24	2400	0.082564	826
Sub-Total			62.77	100	1000000	34.401742	344017
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.074856	95.12	951200	0.589086	5891
Precious Metals	Gold	7440-57-5	0.008814	0.78	7800	0.004831	48
Precious Metals	Palladium	7440-05-3	0.04633	4.1	41000	0.025392	254
Sub-Total			1.13	100	1000000	0.619308	6193
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	94.760672	90.5	905000	51.934557	519346
Other Plastics and Rubber	Carbon Black	1333-86-4	0.52354	0.5	5000	0.286931	2869
Thermoplastics	Ероху	85954-11-6	9.423713	9	90000	5.164762	51648
Sub-Total			104.707925	100	1000000	57.386251	573863
Semiconductor Device		•					
Ceramics / Glass	Doped Silicon	7440-21-3	10.030672	100	1000000	5.497413	54974
Sub-Total			10.030672	100	1000000	5.497413	54974
Total			182.461692			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

It 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: 05/30/2022

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 IS709B low halogen requirements of <= 1000ppm threshold; Antimony trioxide (Sb203) contained in halogen based flame retardant materials meets the <= 1 000ppm threshold requirement: and Bervllium Oxide (BeO) is <=1000ppm.