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

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

Created on: 05/09/2022

Details for "SN74ALVCH16823DGGR"

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)*
	SN74ALVCH16823DGGR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	DGG 56	6.1x14x1.15	260.2

*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

				Homoge	neous Material Level	Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.360859	99.997229	999972	0.138703	1387
Copper and Its Alloys	Iron	7439-89-6	0.000002	0.000554	6	0.000001	0
Nickel and Its Alloys	Nickel	7440-02-0	0.000001	0.000277	3	0	0
Other Inorganic Materials	Sulfur	7704-34-9	0.000001	0.000277	3	0	0
Other Nonferrous Metals and Alloys	Manganese	7439-96-5	0.000001	0.000277	3	0	0
Precious Metals	Silver	7440-22-4	0.000005	0.001386	14	0.000002	0
Sub-Total			0.360869	100	1000000	0.138706	1387
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.557734	80.000057	800001	0.214375	2144
Thermoplastics	Epoxy	85954-11-6	0.139433	19.999943	199999	0.053594	536
Sub-Total			0.697167	100	1000000	0.267968	2680
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	87.47418	97.41	974100	33.622246	336222
Copper and Its Alloys	Iron	7439-89-6	2.1552	2.4	24000	0.828389	8284
Copper and Its Alloys	Phosphorus	7723-14-0	0.02694	0.03	300	0.010355	104
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.02694	0.03	300	0.010355	104
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.02694	0.03	300	0.010355	104
Zinc and Its Alloys	Zinc	7440-66-6	0.0898	0.1	1000	0.034516	345
Sub-Total			89.8	100	1000000	34.516216	345162
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.540944	95.12	951200	0.592289	5923
Precious Metals	Gold	7440-57-5	0.012636	0.78	7800	0.004857	49
Precious Metals	Palladium	7440-05-3	0.06642	4.1	41000	0.02553	255
Sub-Total			1.62	100	1000000	0.622676	6227
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	142.252914	86	860000	54.67742	546774
Other Plastics and Rubber	Carbon Black	1333-86-4	0.496231	0.3	3000	0.190735	1907
Thermoplastics	Epoxy	85954-11-6	22.66122	13.7	137000	8.71024	87102
Sub-Total			165.410365	100	1000000	63.578396	635784
Semiconductor Device		<u> </u>					
Ceramics / Glass	Doped Silicon	7440-21-3	2.279166	100	1000000	0.876038	8760
Sub-Total			2.279166	100	1000000	0.876038	8760
Total			260.167567			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.

T. here 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 "RoH5 Exempt" fully meets the latest EU RoH5 Directive requirements along with other legislation as seen in the former JIG-101 list that has been transferred to the EC 62474 database.

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

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