

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: 08/25/2022

Details for "SN74AVCBH164245GR"

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)*
SN74AVCBH164245GR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	DGG 48	6.1x12.5x1.15	280.4

*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	0.313265	99.997766	999978	0.111729	1117
Copper and Its Alloys	Iron	7439-89-6	0.000001	0.000319	3	0	0
Nickel and Its Alloys	Nickel	7440-02-0	0.000001	0.000319	3	0	0
Other Nonferrous Metals and Alloys	Manganese	7439-96-5	0.000001	0.000319	3	0	0
Precious Metals	Silver	7440-22-4	0.000004	0.001277	13	0.000001	0
Sub-Total			0.313272	100	1000000	0.111731	1117
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.603088	80	800000	0.215097	2151
Thermoplastics	Epoxy	85954-11-6	0.150772	20	200000	0.053774	538
Sub-Total			0.75386	100	1000000	0.268871	2689
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	115.54064	97.585	975850	41.208624	412086
Copper and Its Alloys	Iron	7439-89-6	2.7232	2.3	23000	0.971254	9713
Copper and Its Alloys	Phosphorus	7723-14-0	0.01776	0.015	150	0.006334	63
Zinc and Its Alloys	Zinc	7440-66-6	0.1184	0.1	1000	0.042228	422
Sub-Total			118.4	100	1000000	42.228441	422284
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	3.04384	95.12	951200	1.085613	10856
Precious Metals	Gold	7440-57-5	0.02496	0.78	7800	0.008902	89
Precious Metals	Palladium	7440-05-3	0.1312	4.1	41000	0.046794	468
Sub-Total			3.2	100	1000000	1.141309	11413
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	133.510998	86	860000	47.617917	476179
Other Plastics and Rubber	Carbon Black	1333-86-4	0.465736	0.3	3000	0.166109	1661
Thermoplastics	Epoxy	85954-11-6	21.268612	13.7	137000	7.585645	75856
Sub-Total			155.245346	100	1000000	55.36967	553697
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.467277	100	1000000	0.879977	8800
Sub-Total			2.467277	100	1000000	0.879977	8800
Total			280.379755			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 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/eoinfo
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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.