

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: 05/16/2022

Details for "SN74HC74PWG4"

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)*
SN74HC74PWG4	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	PW 14	4.4x5x1.15	81.4

*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	0.056599	99.998233	999982	0.069506	695
Precious Metals	Silver	7440-22-4	0.000001	0.001767	18	0.000001	0
Sub-Total			0.0566	100	1000000	0.069507	695
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.295298	79.999892	799999	0.36264	3626
Thermoplastics	Epoxy	85954-11-6	0.073825	20.000108	200001	0.090661	907
Sub-Total			0.369123	100	1000000	0.453301	4533
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	42.3138	97.040296	970403	51.963364	519634
Copper and Its Alloys	Iron	7439-89-6	1.1336	2.59974	25997	1.392115	13921
Copper and Its Alloys	Phosphorus	7723-14-0	0.0654	0.149985	1500	0.080314	803
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00436	0.009999	100	0.005354	54
Zinc and Its Alloys	Zinc	7440-66-6	0.0872	0.19998	2000	0.107086	1071
Sub-Total			43.60436	100	1000000	53.548233	535482
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.022446	95.11823	951182	0.027565	276
Precious Metals	Gold	7440-57-5	0.000184	0.779727	7797	0.000226	2
Precious Metals	Palladium	7440-05-3	0.000968	4.102043	41020	0.001189	12
Sub-Total			0.023598	100	1000000	0.028979	290
Mold Compound							
Other Inorganic Materials	Silica	7631-86-9	30.743051	85.000001	850000	37.753932	377539
Other Plastics and Rubber	Carbon Black	1333-86-4	0.180841	0.499999	5000	0.222081	2221
Thermoplastics	Epoxy	85954-11-6	5.244403	14.500001	145000	6.440377	64404
Sub-Total			36.168295	100	1000000	44.416391	444164
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.208087	100	1000000	1.483588	14836
Sub-Total			1.208087	100	1000000	1.483588	14836
Total			81.430063			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: \(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to www.ti.com/ecoinfo
 Created on: 05/16/2022

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 J57098 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.