

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: 05/19/2022

Details for "SN74HC74PWR"

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)*
SN74HC74PWR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	PW 14	4.4x5x1.15	83.9

*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	0.051424	97.53433	975343	0.061298	613
Not Categorized	Proprietary Materials		0.000006	0.01138	114	0.000007	0
Precious Metals	Gold	7440-57-5	0.000027	0.05121	512	0.000032	0
Precious Metals	Palladium	7440-05-3	0.001265	2.399287	23993	0.001508	15
Precious Metals	Silver	7440-22-4	0.000002	0.003793	38	0.000002	0
Sub-Total			0.052724	100	1000000	0.062847	628
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.035659	79.999551	799996	0.042506	425
Thermoplastics	Epoxy	85954-11-6	0.008915	20.000449	200004	0.010627	106
Sub-Total			0.044574	100	1000000	0.053132	531
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	44.53592	97.24	972400	53.086926	530869
Copper and Its Alloys	Iron	7439-89-6	1.1908	2.6	26000	1.419437	14194
Copper and Its Alloys	Phosphorus	7723-14-0	0.0687	0.15	1500	0.081891	819
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00458	0.01	100	0.005459	55
Sub-Total			45.8	100	1000000	54.593712	545937
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.652523	95.119971	951200	0.777809	7778
Precious Metals	Gold	7440-57-5	0.005351	0.780029	7800	0.006378	64
Precious Metals	Palladium	7440-05-3	0.028126	4.1	41000	0.033526	335
Sub-Total			0.686	100	1000000	0.817714	8177
Mold Compound							
Other Inorganic Materials	Silica	7631-86-9	31.588774	85.000001	850000	37.653896	376539
Other Plastics and Rubber	Carbon Black	1333-86-4	0.185816	0.499999	5000	0.221493	2215
Thermoplastics	Epoxy	85954-11-6	5.388673	14.5	145000	6.423311	64233
Sub-Total			37.163263	100	1000000	44.298701	442987
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.145884	100	1000000	0.173894	1739
Sub-Total			0.145884	100	1000000	0.173894	1739
Total			83.892445			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 Utility
 For further environmental statements, please go to www.ti.com/ecoinfo
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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.