

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: 05/17/2022

Details for "SN74ACT240PWG4"

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)*
SN74ACT240PWG4	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	PW 20	4.4x6.5x1.15	106.7

*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	0.116214	99.997419	999974	0.108952	1090
Copper and Its Alloys	Iron	7439-89-6	0.000001	0.00086	9	0.000001	0
Precious Metals	Silver	7440-22-4	0.000002	0.001721	17	0.000002	0
Sub-Total			0.116217	100	1000000	0.108955	1090
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.300861	80.000053	800001	0.282061	2821
Thermoplastics	Epoxy	85954-11-6	0.075215	19.999947	199999	0.070515	705
Sub-Total			0.376076	100	1000000	0.352577	3526
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	56.960365	97.584999	975850	53.401141	534011
Copper and Its Alloys	Iron	7439-89-6	1.34251	2.3	23000	1.258622	12586
Copper and Its Alloys	Phosphorus	7723-14-0	0.008756	0.015001	150	0.008209	82
Zinc and Its Alloys	Zinc	7440-66-6	0.05837	0.1	1000	0.054723	547
Sub-Total			58.370001	100	1000000	54.722695	547227
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.028536	95.12	951200	0.026753	268
Precious Metals	Gold	7440-57-5	0.000234	0.78	7800	0.000219	2
Precious Metals	Palladium	7440-05-3	0.00123	4.1	41000	0.001153	12
Sub-Total			0.03	100	1000000	0.028125	281
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	40.026061	85.999999	860000	37.524994	375250
Other Plastics and Rubber	Carbon Black	1333-86-4	0.139626	0.3	3000	0.130901	1309
Thermoplastics	Epoxy	85954-11-6	6.376245	13.700001	137000	5.977819	59778
Sub-Total			46.541932	100	1000000	43.633714	436337
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.230845	100	1000000	1.153934	11539
Sub-Total			1.230845	100	1000000	1.153934	11539
Total			106.665071			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: 05/17/2022

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.