

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: 05/09/2022

Details for "SN74HC175D"

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)*
SN74HC175D	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D 16	3.91x9.9x1.58	238.4

***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	0.076665	99.998696	999987	0.032158	322
Precious Metals	Silver	7440-22-4	0.000001	0.001304	13	0	0
Sub-Total			0.076666	100	1000000	0.032158	322
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.29344	79.000008	790000	0.123087	1231
Thermoplastics	Epoxy	85954-11-6	0.078003	20.999992	210000	0.032719	327
Sub-Total			0.371443	100	1000000	0.155806	1558
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	121.71875	97.375	973750	51.056244	510562
Copper and Its Alloys	Iron	7439-89-6	3.25	2.6	26000	1.363248	13632
Copper and Its Alloys	Phosphorus	7723-14-0	0.01875	0.015	150	0.007865	79
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0125	0.01	100	0.005243	52
Sub-Total			125	100	1000000	52.4326	524326
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.76096	95.12	951200	0.319193	3192
Precious Metals	Gold	7440-57-5	0.00624	0.78	7800	0.002617	26
Precious Metals	Palladium	7440-05-3	0.0328	4.1	41000	0.013758	138
Sub-Total			0.8	100	1000000	0.335569	3356
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	97.506145	88	880000	40.900005	409000
Other Plastics and Rubber	Carbon Black	1333-86-4	0.332407	0.3	3000	0.139432	1394
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.609413	0.55	5500	0.255625	2556
Thermoplastics	Epoxy	85954-11-6	12.354472	11.15	111500	5.182217	51822
Sub-Total			110.802437	100	1000000	46.477279	464773
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.350755	100	1000000	0.566589	5666
Sub-Total			1.350755	100	1000000	0.566589	5666
Total			238.401301			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 (EMIS 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/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 [Sb203] contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.