Texas Instruments Inc. (DUNS# 00-732-1904) Supplier Name:

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

05/12/2022

### Details for "SN74HC05DTG4"

### **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)*
SN74HC05DTG4	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	D   14	3.91X8.65X1.58	206.8

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**

				Homogeneous Material Level		Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.057746	99.998268	999983	0.027928	279
Precious Metals	Silver	7440-22-4	0.000001	0.001732	17	0	0
Sub-Total			0.057747	100	1000000	0.027928	279
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.273627	79.999942	799999	0.132335	1323
Thermoplastics	Epoxy	85954-11-6	0.068407	20.000058	200001	0.033084	331
Sub-Total			0.342034	100	1000000	0.165419	1654
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	97.375	97.375	973750	47.093868	470939
Copper and Its Alloys	Iron	7439-89-6	2.6	2.6	26000	1.257449	12574
Copper and Its Alloys	Phosphorus	7723-14-0	0.015	0.015	150	0.007255	73
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.01	0.01	100	0.004836	48
Sub-Total			100	100	1000000	48.363407	483634
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	4.37552	95.12	951200	2.116151	21162
Precious Metals	Gold	7440-57-5	0.03588	0.78	7800	0.017353	174
Precious Metals	Palladium	7440-05-3	0.1886	4.1	41000	0.091213	912
Sub-Total			4.6	100	1000000	2.224717	22247
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	88.570844	88	880000	42.835878	428359
Other Plastics and Rubber	Carbon Black	1333-86-4	0.301946	0.3	3000	0.146031	1460
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.553568	0.55	5500	0.267724	2677
Thermoplastics	Epoxy	85954-11-6	11.222328	11.15	111500	5.4275	54275
Sub-Total			100.648686	100	1000000	48.677134	486771
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.119429	100	1000000	0.541394	5414
Sub-Total			1.119429	100	1000000	0.541394	5414
Total			206.767896			100	1000000

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. 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

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 (CI) and Bromine (Br)-based flame retardants meet J5709B 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.