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

Contact Info: <u>ti.com/support</u>

Form/Declaration Type: Distribute - RoHS and IEC 62474 DB

Created on: **08/29/2022** 

#### Details for "SN74AHC157NSR"

### **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)*
SN74AHC157NSR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	NS   16	5.3x10.3x1.95	247.8

### \*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**

				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	0.104035	99.999039	999990	0.041982	420
Precious Metals	Silver	7440-22-4	0.000001	0.000961	10	0	0
Sub-Total			0.104036	100	1000000	0.041982	420
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.16769	80.000191	800002	0.067669	677
Thermoplastics	Ероху	85954-11-6	0.041922	19.999809	199998	0.016917	169
Sub-Total			0.209612	100	1000000	0.084586	846
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	56.79447	97.585	975850	22.918533	229185
Copper and Its Alloys	Iron	7439-89-6	1.3386	2.3	23000	0.540171	5402
Copper and Its Alloys	Phosphorus	7723-14-0	0.00873	0.015	150	0.003523	35
Zinc and Its Alloys	Zinc	7440-66-6	0.0582	0.1	1000	0.023486	235
Sub-Total			58.2	100	1000000	23.485713	234857
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.09512	95.12	951200	0.038384	384
Precious Metals	Gold	7440-57-5	0.00078	0.78	7800	0.000315	3
Precious Metals	Palladium	7440-05-3	0.0041	4.1	41000	0.001654	17
Sub-Total			0.1	100	1000000	0.040353	404
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	165.889289	88	880000	66.942065	669421
Other Plastics and Rubber	Carbon Black	1333-86-4	0.565532	0.3	3000	0.228212	2282
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	1.036808	0.55	5500	0.418388	4184
Thermoplastics	Ероху	85954-11-6	21.018927	11.15	111500	8.481864	84819
Sub-Total			188.510556	100	1000000	76.070528	760705
Semiconductor Device	-	-					
Ceramics / Glass	Doped Silicon	7440-21-3	0.686032	100	1000000	0.276838	2768
Sub-Total			0.686032	100	1000000	0.276838	2768
Total			247.810236			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 (EMSIs 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 Created on: 08/29/2022

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 (CI) 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.