

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 "SN74AS151N"

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)*
SN74AS151N	NIPDAU	Level-NC-NC-NC	TI AGUASCALIENTES	N 16	6.35x19.3x4.57	1325.7

*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	0.079083	99.998736	999987	0.005965	60
Precious Metals	Silver	7440-22-4	0.000001	0.001264	13	0	0
Sub-Total			0.079084	100	1000000	0.005966	60
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.384178	79.000043	790000	0.02898	290
Thermoplastics	Epoxy	85954-11-6	0.102123	20.999957	210000	0.007703	77
Sub-Total			0.486301	100	1000000	0.036683	367
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	410.492385	97.05	970500	30.964674	309647
Copper and Its Alloys	Iron	7439-89-6	10.99722	2.6	26000	0.829553	8296
Copper and Its Alloys	Phosphorus	7723-14-0	0.634455	0.15	1500	0.047859	479
Zinc and Its Alloys	Zinc	7440-66-6	0.84594	0.2	2000	0.063812	638
Sub-Total			422.97	100	1000000	31.905898	319059
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.399215	95.119986	951200	0.105547	1055
Precious Metals	Gold	7440-57-5	0.011474	0.780014	7800	0.000866	9
Precious Metals	Palladium	7440-05-3	0.060311	4.1	41000	0.004549	45
Sub-Total			1.471	100	1000000	0.110962	1110
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	791.03625	88	880000	59.670242	596702
Other Plastics and Rubber	Carbon Black	1333-86-4	2.696714	0.3	3000	0.203421	2034
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	4.943977	0.55	5500	0.372939	3729
Thermoplastics	Epoxy	85954-11-6	100.227888	11.15	111500	7.560491	75605
Sub-Total			898.904829	100	1000000	67.807093	678071
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.768438	100	1000000	0.133399	1334
Sub-Total			1.768438	100	1000000	0.133399	1334
Total			1325.679652			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 Quality
 For further environmental statements, please go to www.ti.com/ecoinfo
 Created on: 05/09/2022

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 I5709B 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.