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: 05/17/2022

Details for "TL145406N"

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)*
TL145406N	NIPDAU	Level-NC-NC-NC	TI AGUASCALIENTES	N 16	6.35x19.3x4.57	1331.4

*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

				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	0.083105	99.998797	999988	0.006242	62
Precious Metals	Silver	7440-22-4	0.000001	0.001203	12	0	0
Sub-Total			0.083106	100	1000000	0.006242	62
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.81468	78.999962	790000	0.061191	612
Thermoplastics	Epoxy	85954-11-6	0.216561	21.000038	210000	0.016266	163
Sub-Total			1.031241	100	1000000	0.077457	775
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	415.50987	97.05	970500	31.208988	312090
Copper and Its Alloys	Iron	7439-89-6	11.13164	2.6	26000	0.836099	8361
Copper and Its Alloys	Phosphorus	7723-14-0	0.64221	0.15	1500	0.048236	482
Zinc and Its Alloys	Zinc	7440-66-6	0.85628	0.2	2000	0.064315	643
Sub-Total			428.14	100	1000000	32.157638	321576
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.417288	95.12	951200	0.106453	1065
Precious Metals	Gold	7440-57-5	0.011622	0.78	7800	0.000873	9
Precious Metals	Palladium	7440-05-3	0.06109	4.1	41000	0.004588	46
Sub-Total			1.49	100	1000000	0.111914	1119
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	789.25828	88	880000	59.281268	592813
Other Plastics and Rubber	Carbon Black	1333-86-4	2.690653	0.3	3000	0.202095	2021
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	4.932864	0.55	5500	0.370508	3705
Thermoplastics	Epoxy	85954-11-6	100.002612	11.15	111500	7.511206	75112
Sub-Total			896.884409	100	1000000	67.365078	673651
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	3.750116	100	1000000	0.281672	2817
Sub-Total		-	3.750116	100	1000000	0.281672	2817
Total			1331.378872			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

Thases 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. Timay 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: 05/17/2022

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 (CI) and Bromine (Br)-based flame retardants meet JS709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (5b203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.