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:	08/28/2022

Details for "LM2931AT-5.0"

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)*
LM2931AT-5.0	SNPB	Level-1-NA-UNLIM	Texas Instruments Electronics	NDE 3	14.99 x 10.16 x 4.57	2604.1

*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
No	Affected	Yes	Affected

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	0.120609	100	1000000	0.004631	46
Sub-Total			0.120609	100	1000000	0.004631	46
Die Attach Adhesive							
Other Nonferrous Metals and Alloys	Antimony	7440-36-0	0.028903	9.999931	99999	0.00111	11
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.187871	65.000069	650001	0.007214	72
Precious Metals	Silver	7440-22-4	0.072258	25	250000	0.002775	28
Sub-Total			0.289032	100	1000000	0.011099	111
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	1244.954836	99.844	998440	47.806898	478069
Copper and Its Alloys	Phosphorus	7723-14-0	0.074814	0.006	60	0.002873	29
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.87035	0.15	1500	0.071822	718
Sub-Total			1246.9	100	1000000	47.881593	478816
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Lead	7439-92-1	3.0075	15	150000	0.11549	1155
Other Nonferrous Metals and Alloys	Tin	7440-31-5	17.0425	85	850000	0.654441	6544
Sub-Total			20.05	100	1000000	0.76993	7699
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	1188.49121	89	890000	45.638666	456387
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	40.061501	3	30000	1.538382	15384
Thermoplastics	Ероху	85954-11-6	106.830671	8	80000	4.102352	41024
Sub-Total			1335.383382	100	1000000	51.2794	512794
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.389223	100	1000000	0.053347	533
Sub-Total			1.389223	100	1000000	0.053347	533
Total			2604.132246			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 TL 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: 08/28/2022

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 "Pb-Free." These TI semiconductor products as "Pb-Free." These TI semiconductor products as 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 "Pb-Free." These TI semiconductor products are solved by a solved of the ten substances listed in RoHS.

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 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.