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 "SN74ALS74ANSR"

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)*
SN74ALS74ANSR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	NS 14	5.3x10.3x1.95	224.1

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	0.075626	99.998678	999987	0.033745	337
Precious Metals	Silver	7440-22-4	0.000001	0.001322	13	0	0
Sub-Total			0.075627	100	1000000	0.033745	337
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.15298	80	800000	0.06826	683
Thermoplastics	Ероху	85954-11-6	0.038245	20	200000	0.017065	171
Sub-Total			0.191225	100	1000000	0.085325	853
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	37.664505	97.425	974250	16.806068	168061
Copper and Its Alloys	Iron	7439-89-6	0.92784	2.4	24000	0.414006	4140
Copper and Its Alloys	Phosphorus	7723-14-0	0.005799	0.015	150	0.002588	26
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.011598	0.03	300	0.005175	52
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.011598	0.03	300	0.005175	52
Zinc and Its Alloys	Zinc	7440-66-6	0.03866	0.1	1000	0.01725	173
Sub-Total			38.66	100	1000000	17.250262	172503
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.655088	95.12	951200	0.738508	7385
Precious Metals	Gold	7440-57-5	0.013572	0.78	7800	0.006056	61
Precious Metals	Palladium	7440-05-3	0.07134	4.1	41000	0.031832	318
Sub-Total			1.74	100	1000000	0.776396	7764
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	160.882067	88	880000	71.786287	717863
Other Plastics and Rubber	Carbon Black	1333-86-4	0.548462	0.3	3000	0.244726	2447
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	1.005513	0.55	5500	0.448664	4487
Thermoplastics	Epoxy	85954-11-6	20.384489	11.15	111500	9.095649	90956
Sub-Total			182.820531	100	1000000	81.575327	815753
Semiconductor Device		•				•	
Ceramics / Glass	Doped Silicon	7440-21-3	0.62515	100	1000000	0.278945	2789
Sub-Total		-	0.62515	100	1000000	0.278945	2789
Total			224.112533			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

T. 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 Created on: 05/12/2022

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.