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: **05/16/2022**

Details for "SN74ALS257ANSR"

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)*
SN74ALS257ANSR	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	0.094906	99.998946	999989	0.038299	383
Precious Metals	Silver	7440-22-4	0.000001	0.001054	11	0	0
Sub-Total			**0.094907**	**100**	**1000000**	**0.038299**	**383**
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.15269	69.999862	699999	0.061617	616
Thermoplastics	Epoxy	85954-11-6	0.065439	30.000138	300001	0.026407	264
Sub-Total			**0.218129**	**100**	**1000000**	**0.088024**	**880**
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	56.79447	97.585	975850	22.918997	229190
Copper and Its Alloys	Iron	7439-89-6	1.3386	2.3	23000	0.540182	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**	**23.486189**	**234862**
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.09512	95.12	951200	0.038385	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	0.001655	17
Sub-Total			**0.1**	**100**	**1000000**	**0.040354**	**404**
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	165.694246	88	880000	66.864713	668647
Other Plastics and Rubber	Carbon Black	1333-86-4	0.564867	0.3	3000	0.227948	2279
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	1.035589	0.55	5500	0.417904	4179
Thermoplastics	Epoxy	85954-11-6	20.994214	11.15	111500	8.472063	84721
Sub-Total			**188.288916**	**100**	**1000000**	**75.982629**	**759826**
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.903262	100	1000000	0.364505	3645
Sub-Total			**0.903262**	**100**	**1000000**	**0.364505**	**3645**
Total			247.805214			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.

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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: 05/16/2022

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 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.