

Supplier Name: **Texas Instruments Inc. (DUNS# 00-732-1904)**  
 Contact Info: [ti.com/support](http://ti.com/support)  
 Form/Declaration Type: **Distribute - RoHS and IEC 62474 DB**  
 Created on: **05/12/2022**

Details for "SN74ACT563DWR"

**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)*
SN74ACT563DWR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	DW   20	7.52x12.82x2.35	564.8

\*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**

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
<b>Bond Wire</b>							
Other Nonferrous Metals and Alloys	Yttrium	7440-65-5	0.000001	0.00064	6	0	0
Precious Metals	Gold	7440-57-5	0.156309	99.998081	999981	0.027675	277
Precious Metals	Silver	7440-22-4	0.000002	0.001279	13	0	0
Sub-Total			<b>0.156312</b>	<b>100</b>	<b>1000000</b>	<b>0.027675</b>	<b>277</b>
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.242312	70	700000	0.042902	429
Thermoplastics	Epoxy	85954-11-6	0.103848	30	300000	0.018386	184
Sub-Total			<b>0.34616</b>	<b>100</b>	<b>1000000</b>	<b>0.061288</b>	<b>613</b>
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	145.72536	97.41	974100	25.800935	258009
Copper and Its Alloys	Iron	7439-89-6	3.5904	2.4	24000	0.635687	6357
Copper and Its Alloys	Phosphorus	7723-14-0	0.04488	0.03	300	0.007946	79
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.04488	0.03	300	0.007946	79
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.04488	0.03	300	0.007946	79
Zinc and Its Alloys	Zinc	7440-66-6	0.1496	0.1	1000	0.026487	265
Sub-Total			<b>149.6</b>	<b>100</b>	<b>1000000</b>	<b>26.486947</b>	<b>264869</b>
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	2.561582	95.120015	951200	0.453533	4535
Precious Metals	Gold	7440-57-5	0.021005	0.779985	7800	0.003719	37
Precious Metals	Palladium	7440-05-3	0.110413	4.1	41000	0.019549	195
Sub-Total			<b>2.693</b>	<b>100</b>	<b>1000000</b>	<b>0.4768</b>	<b>4768</b>
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	312.037747	76	760000	55.24684	552468
Other Organic Materials	Proprietary Non Halide Flame Retardant	Trade Secret	14.370159	3.5	35000	2.544262	25443
Other Plastics and Rubber	Carbon Black	1333-86-4	1.231728	0.3	3000	0.21808	2181
Thermoplastics	Epoxy	85954-11-6	82.936348	20.2	202000	14.684028	146840
Sub-Total			<b>410.575982</b>	<b>100</b>	<b>1000000</b>	<b>72.693211</b>	<b>726932</b>
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	1.43505	100	1000000	0.254078	2541
Sub-Total			<b>1.43505</b>	<b>100</b>	<b>1000000</b>	<b>0.254078</b>	<b>2541</b>
<b>Total</b>			<b>564.806504</b>			<b>100</b>	<b>1000000</b>

**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 (EMSLs 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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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](http://www.ti.com/ecoinfo)  
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**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 J5709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (Sb2O3) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.