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: 05/16/2022

### Details for "SN74LS377DWR"

### **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)*
SN74LS377DWR	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	DW   20	7.52x12.82x2.35	612.7

#### \*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**

					neous Material Level	Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.093768	99.998934	999989	0.015305	153
Precious Metals	Silver	7440-22-4	0.000001	0.001066	11	0	0
Sub-Total			0.093769	100	1000000	0.015305	153
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.403859	79.99996	800000	0.065918	659
Thermoplastics	Ероху	85954-11-6	0.100965	20.00004	200000	0.01648	165
Sub-Total			0.504824	100	1000000	0.082398	824
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	166.063322	97.585	975850	27.104899	271049
Copper and Its Alloys	Iron	7439-89-6	3.913979	2.3	23000	0.638841	6388
Copper and Its Alloys	Phosphorus	7723-14-0	0.025526	0.015	150	0.004166	42
Zinc and Its Alloys	Zinc	7440-66-6	0.170173	0.1	1000	0.027776	278
Sub-Total			170.173	100	1000000	27.775682	277757
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.313896	95.12	951200	0.051234	512
Precious Metals	Gold	7440-57-5	0.002574	0.78	7800	0.00042	4
Precious Metals	Palladium	7440-05-3	0.01353	4.1	41000	0.002208	22
Sub-Total			0.33	100	1000000	0.053863	539
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	387.12703	88	880000	63.186976	631870
Other Plastics and Rubber	Carbon Black	1333-86-4	1.319751	0.3	3000	0.21541	2154
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	2.419544	0.55	5500	0.394919	3949
Thermoplastics	Ероху	85954-11-6	49.050754	11.15	111500	8.006077	80061
Sub-Total			439.917079	100	1000000	71.803381	718034
Semiconductor Device		•		•		•	
Ceramics / Glass	Doped Silicon	7440-21-3	1.650358	100	1000000	0.269372	2694
Sub-Total			1.650358	100	1000000	0.269372	2694
Total			612.66903		·	100	1000000

### Important Not

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

Tl certifies that the material content information provided by Tl 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. Tl 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: 05/16/2022

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.