

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: **06/13/2022**

Details for "UC3851DW"

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)*
UC3851DW	NIPDAU	Level-2-260C-1 YEAR	Ext-Mfg	DW 18	11.6x7.5x2.45	546.1

*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
Yes	Yes	Yes	Yes

Component Information

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
Bond Wire							
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.00001	0.000162	2	0	0
Precious Metals	Gold	7440-57-5	0.615393	99.999025	999990	0.112692	1127
Precious Metals	Silver	7440-22-4	0.000005	0.000812	8	0.000001	0
Sub-Total			0.615399	100	1000000	0.112693	1127
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	1.175878	80.000027	800000	0.215328	2153
Thermoplastics	Epoxy	85954-11-6	0.293969	19.999973	200000	0.053832	538
Sub-Total			1.469847	100	1000000	0.26916	2692
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	159.473498	97.597	975970	29.203012	292030
Copper and Its Alloys	Iron	7439-89-6	3.64382	2.23	22300	0.667261	6673
Copper and Its Alloys	Phosphorus	7723-14-0	0.05719	0.035	350	0.010473	105
Zinc and Its Alloys	Zinc	7440-66-6	0.225492	0.138	1380	0.041292	413
Sub-Total			163.4	100	1000000	29.922039	299220
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.461941	95.120048	951200	0.084591	846
Precious Metals	Gold	7440-57-5	0.003788	0.780002	7800	0.000694	7
Precious Metals	Palladium	7440-05-3	0.019911	4.099951	41000	0.003646	36
Sub-Total			0.48564	100	1000000	0.088931	889
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	318.532727	85	850000	58.330163	583302
Other Organic Materials	Proprietary Non Halide Flame Retardant	Trade Secret	23.983641	6.4	64000	4.391918	43919
Other Plastics and Rubber	Carbon Black	1333-86-4	0.374744	0.1	1000	0.068624	686
Thermoplastics	Epoxy	85954-11-6	31.853273	8.5	85000	5.833016	58330
Sub-Total			374.744385	100	1000000	68.623721	686237
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	5.370513	100	1000000	0.983456	9835
Sub-Total			5.370513	100	1000000	0.983456	9835
Total			546.085784			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 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
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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 (Sb203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.