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:	05/31/2022

Details for "LM3678SDE-1.2/NOPB"

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)*
LM3678SDE-1.2/NOPB	SN	Level-1-260C-UNLIM	Texas Instruments Electronics	DSC 10	3 x 3 x 0.7	19.2

*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	0.075229	98.736088	987361	0.391022	3910
Not Categorized	Proprietary Materials		0.00008	0.0105	105	0.000042	0
Precious Metals	Gold	7440-57-5	0.000016	0.021	210	0.000083	1
Precious Metals	Palladium	7440-05-3	0.000937	1.229788	12298	0.00487	49
Precious Metals	Silver	7440-22-4	0.000002	0.002625	26	0.00001	C
Sub-Total			0.076192	100	1000000	0.396028	3960
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.440341	75.000043	750000	2.288788	22888
Thermoplastics	Ероху	85954-11-6	0.14678	24.999957	250000	0.762928	7629
Sub-Total			0.587121	100	1000000	3.051715	30517
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	8.780605	97.67079	976708	45.639496	456395
Copper and Its Alloys	Iron	7439-89-6	0.192836	2.145005	21450	1.002316	10023
Copper and Its Alloys	Phosphorus	7723-14-0	0.002715	0.0302	302	0.014112	141
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.000189	0.002102	21	0.000982	
Zinc and Its Alloys	Zinc	7440-66-6	0.013656	0.151902	1519	0.070981	710
Sub-Total			8.990001	100	1000000	46.727887	467279
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.522	100	1000000	2.713232	27132
Sub-Total			0.522	100	1000000	2.713232	27132
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	6.866798	90.500001	905000	35.691982	356920
Thermoplastics	Epoxy	85954-11-6	0.720824	9.499999	95000	3.746672	37467
Sub-Total			7.587622	100	1000000	39.438654	394387
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.476113	100	1000000	7.672484	76725
Sub-Total			1.476113	100	1000000	7.672484	76725
Total			19.239049			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/Disclaimen

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: 05/31/2022

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/szq088

Green: Means the content of Chlorine (CI) 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.