Supplier Name:	
Contact Info:	
Form/Declaration Type:	
Created any	

Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB

Distribute - RoHS and IE0 05/18/2022

Details for "SN65C1168ENSG4"

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)*
SN65C1168ENSG4	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	NS 16	5.3x10.3x1.95	253.4

*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	0.10342	99.999033	999990	0.040818	408
Precious Metals	Silver	7440-22-4	0.000001	0.000967	10	0	0
Sub-Total			0.103421	100	1000000	0.040818	408
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.689138	79.999954	800000	0.27199	2720
Thermoplastics	Epoxy	85954-11-6	0.172285	20.000046	200000	0.067998	680
Sub-Total			0.861423	100	1000000	0.339988	3400
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	57.751061	97.642414	976424	22.793267	227933
Copper and Its Alloys	Iron	7439-89-6	1.264954	2.138717	21387	0.499254	4993
Copper and Its Alloys	Phosphorus	7723-14-0	0.019506	0.03298	330	0.007699	77
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.017733	0.029982	300	0.006999	70
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.017733	0.029982	300	0.006999	70
Zinc and Its Alloys	Zinc	7440-66-6	0.074479	0.125925	1259	0.029395	294
Sub-Total			59.145466	100	1000000	23.343612	233436
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	4.109184	95.12	951200	1.621818	16218
Precious Metals	Gold	7440-57-5	0.033696	0.78	7800	0.013299	133
Precious Metals	Palladium	7440-05-3	0.17712	4.1	41000	0.069906	699
Sub-Total			4.32	100	1000000	1.705023	17050
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	163.785009	88	880000	64.642888	646429
Other Plastics and Rubber	Carbon Black	1333-86-4	0.558358	0.3	3000	0.220373	2204
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	1.023656	0.55	5500	0.404018	4040
Thermoplastics	Epoxy	85954-11-6	20.752305	11.15	111500	8.190548	81905
Sub-Total			186.119328	100	1000000	73.457828	734578
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.819314	100	1000000	1.112731	11127
Sub-Total			2.819314	100	1000000	1.112731	11127
Total			253.368952			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**.

Ine ppm calculations are at the component evel and are average concentration values. Ine amount (mg) calculations represent the average total amount or 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

Th 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: 05/18/2022

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.