#### Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904) Contact Info: Form/Declaration Type: ti.com/support Distribute - RoHS and IEC 62474 DB Created on: 05/31/2022

# Details for "LM318M"

#### 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)*
LM318M	SNPB	Level-1-235C-UNLIM	Texas Instruments Electronics	D   8	4.9 x 3.9 x 1.75	79.7

# \*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
No	Affected	Yes	Affected

## **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	0.032565	100	1000000	0.040883	409		
Sub-Total			0.032565	100	1000000	0.040883	409		
Die Attach Adhesive									
Precious Metals	Silver	7440-22-4	0.392564	74.999952	750000	0.492839	4928		
Thermoplastics	Ероху	85954-11-6	0.130855	25.000048	250000	0.16428	1643		
Sub-Total			0.523419	100	1000000	0.657119	6571		
Lead Frame									
Copper and Its Alloys	Copper	7440-50-8	20.03484	96.6	966000	25.152449	251524		
Copper and Its Alloys	Iron	7439-89-6	0.493612	2.38	23800	0.619698	6197		
Copper and Its Alloys	Phosphorus	7723-14-0	0.006222	0.03	300	0.007811	78		
Precious Metals	Silver	7440-22-4	0.180438	0.87	8700	0.226528	2265		
Zinc and Its Alloys	Zinc	7440-66-6	0.024888	0.12	1200	0.031245	312		
Sub-Total			20.74	100	1000000	26.037732	260377		
Lead Frame Plating									
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.24	15	150000	0.301305	3013		
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.36	85	850000	1.707392	17074		
Sub-Total			1.6	100	1000000	2.008697	20087		
Mold Compound									
Other Inorganic Materials	Fused Silica	60676-86-0	47.994752	88.999999	890000	60.254316	602543		
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	1.617801	3.000001	30000	2.031045	20310		
Thermoplastics	Epoxy	85954-11-6	4.314135	8	80000	5.416118	54161		
Sub-Total			53.926688	100	1000000	67.701479	677015		
Semiconductor Device									
Ceramics / Glass	Doped Silicon	7440-21-3	2.830962	100	1000000	3.55409	35541		
Sub-Total			2.830962	100	1000000	3.55409	35541		
Total			79.653634			100	1000000		
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#### 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

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 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

luctor 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 RoHS: Means TI semicon 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 require onto

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.