Texas Instruments Inc. (DUNS# 00-732-1904) Supplier Name:

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

Created on 05/18/2022

## Details for "SN65MLVD203DR"

### **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)*
SN65MLVD203DR	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D   14	3.91X8.65X1.58	157.1

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	0.079357	99.99874	999987	0.050507	505
Precious Metals	Silver	7440-22-4	0.000001	0.00126	13	0.000001	(
Sub-Total			0.079358	100	1000000	0.050508	50
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.617255	78.999944	789999	0.392855	3929
Thermoplastics	Epoxy	85954-11-6	0.164081	21.000056	210001	0.10443	104
Sub-Total			0.781336	100	1000000	0.497285	4973
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	46.301585	97.049999	970500	29.468851	294689
Copper and Its Alloys	Iron	7439-89-6	1.240434	2.6	26000	0.78948	7895
Copper and Its Alloys	Phosphorus	7723-14-0	0.071564	0.150001	1500	0.045547	455
Zinc and Its Alloys	Zinc	7440-66-6	0.095418	0.2	2000	0.060729	607
Sub-Total			47.709001	100	1000000	30.364608	303646
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.157899	95.11988	951199	0.100496	1005
Precious Metals	Gold	7440-57-5	0.001295	0.78012	7801	0.000824	8
Precious Metals	Palladium	7440-05-3	0.006806	4.1	41000	0.004332	43
Sub-Total			0.166	100	1000000	0.105651	1057
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	92.878189	88	880000	59.11274	591127
Other Plastics and Rubber	Carbon Black	1333-86-4	0.31663	0.3	3000	0.201521	2015
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.580489	0.55	5500	0.369455	3695
Thermoplastics	Ероху	85954-11-6	11.768089	11.15	111500	7.489853	74899
Sub-Total			105.543397	100	1000000	67.173568	671736
Semiconductor Device	•	•				•	
Ceramics / Glass	Doped Silicon	7440-21-3	2.841335	100	1000000	1.80838	18084
Sub-Total			2.841335	100	1000000	1.80838	18084
Total			157.120427			100	1000000

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

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

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 (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.