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: 05/09/2022

### Details for "OPA2364IDR"

### **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)* |
|----------------|---------------------------|------------------------|-----------------|----------------|------------------------|-------------------------|
| OPA2364IDR     |                           | Level-2-260C-1 YEAR    | TI MALAYSIA A/T | D   8          | 3.91x4.9x1.58          | 102                     |

## \*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  | 0.040406    | 99.997525                  | 999975  | 0.03963         | 396     |
| Precious Metals           | Silver             | 7440-22-4  | 0.000001    | 0.002475                   | 25      | 0.000001        | 0       |
| Sub-Total                 |                    |            | 0.040407    | 100                        | 1000000 | 0.039631        | 396     |
| Die Attach Adhesive       |                    |            |             |                            |         |                 |         |
| Precious Metals           | Silver             | 7440-22-4  | 0.253574    | 79.999874                  | 799999  | 0.248702        | 2487    |
| Thermoplastics            | Epoxy              | 85954-11-6 | 0.063394    | 20.000126                  | 200001  | 0.062176        | 622     |
| Sub-Total                 |                    |            | 0.316968    | 100                        | 1000000 | 0.310878        | 3109    |
| Lead Frame                |                    |            |             |                            |         |                 |         |
| Copper and Its Alloys     | Copper             | 7440-50-8  | 37.624655   | 97.701                     | 977010  | 36.901715       | 369017  |
| Copper and Its Alloys     | Iron               | 7439-89-6  | 0.824114    | 2.14                       | 21400   | 0.808279        | 8083    |
| Copper and Its Alloys     | Phosphorus         | 7723-14-0  | 0.012708    | 0.032999                   | 330     | 0.012464        | 125     |
| Zinc and Its Alloys       | Zinc               | 7440-66-6  | 0.048523    | 0.126001                   | 1260    | 0.047591        | 476     |
| Sub-Total                 |                    |            | 38.51       | 100                        | 1000000 | 37.770049       | 377700  |
| Lead Frame Plating        |                    |            |             |                            |         |                 |         |
| Nickel and Its Alloys     | Nickel             | 7440-02-0  | 1.864352    | 95.12                      | 951200  | 1.828529        | 18285   |
| Precious Metals           | Gold               | 7440-57-5  | 0.015288    | 0.78                       | 7800    | 0.014994        | 150     |
| Precious Metals           | Palladium          | 7440-05-3  | 0.08036     | 4.1                        | 41000   | 0.078816        | 788     |
| Sub-Total                 |                    |            | 1.96        | 100                        | 1000000 | 1.92234         | 19223   |
| Mold Compound             |                    |            |             |                            |         |                 |         |
| Other Inorganic Materials | Fused Silica       | 60676-86-0 | 52.883009   | 87.999999                  | 880000  | 51.866887       | 518669  |
| Other Plastics and Rubber | Carbon Black       | 1333-86-4  | 0.180283    | 0.3                        | 3000    | 0.176819        | 1768    |
| Other Plastics and Rubber | Organic Phosphorus | 1330-78-5  | 0.330519    | 0.55                       | 5500    | 0.324168        | 3242    |
| Thermoplastics            | Epoxy              | 85954-11-6 | 6.700518    | 11.150001                  | 111500  | 6.571771        | 65718   |
| Sub-Total                 |                    |            | 60.094329   | 100                        | 1000000 | 58.939645       | 589396  |
| Semiconductor Device      |                    |            |             |                            |         |                 |         |
| Ceramics / Glass          | Doped Silicon      | 7440-21-3  | 1.037391    | 100                        | 1000000 | 1.017458        | 10175   |
| Sub-Total                 |                    |            | 1.037391    | 100                        | 1000000 | 1.017458        | 10175   |
| Total                     |                    |            | 101,959095  |                            |         | 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.

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

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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: 05/09/2022

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