



Material Content Data Sheet

| Umbrella Spec | | IH4-IHM 130 AI PI LK | | | | | | |
|--|--------------------|----------------------------|--------------------------|----------------------|---------|-----------------------|---|----|
| Date | | 2017-03-01 | | | | RoHS compliant | | no |
| Revision | | 7.0 | | | | | | |
| Construction element | Material group | Materials | CAS-Nr. if applicable | Average mass [%]* | Sum [%] | Traces | Comment | |
| chip | inorganic material | silicon | 7440-21-3 | 0,6 | 0,6 | | | |
| Base plate and substrate including metallisation | non noble metal | aluminium | 7429-90-5 | 8,6 | 39,6 | | | |
| | inorganic material | silicon carbide | 409-21-2 | 20,2 | | | | |
| | inorganic material | aluminium nitride | | 5,4 | | | | |
| | non noble metal | copper | 7440-50-8 | 3,0 | | | | |
| | non noble metal | tin | 7440-31-5 | 0,9 | | | | |
| | non noble metal | lead | 7439-92-1 | 1,3 | | | | |
| | noble metal | silver | 7440-22-4 | 0,2 | | | | |
| | non noble metal | nickel | 7440-02-0 | | | | X | |
| | non noble metal | zinc | 7440-66-6 | | | | X | |
| | | polymers | acrylic compounds | | | | | X |
| wire | non noble metal | aluminium | 7429-90-5 | | | | X | |
| encapsulation | polymers | silicone gel | | 13,9 | 22,8 | | | |
| | polymers | epoxid resin | | 8,9 | | | | |
| housing | polymers | Polyamid (PA) | | 9,9 | 14,4 | | Containing no halogenated compounds or diantimony trioxide classifications: DIN EN 45545: R24: HL3 R23: HL3 R22: HL3 | |
| | inorganic material | phosphorus | | 0,2 | | | | |
| | inorganic material | silicondioxide / glasfiber | | 4,3 | | | | |
| lead, finish and plating | non noble metal | copper | 7440-50-8 | 16,1 | 20,2 | | | |
| | ferrous metal | steel | 11121-90-7 | 4,1 | | | | |
| | non noble metal | zinc | 7440-66-6 | | | | X | |
| | non noble metal | nickel | 7440-02-0 | | | | X | |
| | polymers | polyamidomide | | | | | X | |
| printed circuit board (PCB) including metallisation and finish | polymers | epoxid resin (FR4) | | 1,7 | 2,5 | | | |
| | non noble metal | copper | 7440-50-8 | 0,7 | | | | |
| | non noble metal | tin | 7440-31-5 | | | | X | |
| deviation | <25% | | | Sum in total | 100,0 | | | |

| | |
|--|------------|
| Weight range of product family ** / gram | 920 |
| Fluctuation margin | <25% |

*) related to component weight

**) Weight of particular product, see technical product information

Important Remarks:

- 1) This document provides full declaration of all materials present in Infineon products above a threshold of 0,1 % b.w. (1000 ppm).
- 2) Trace concentrations (i.e. < 0,1 % b.w) present in products are marked with an "X" as far as they represent substances-of-concern.
A list of substances-of-concern can be found at <http://www.infineon.com/soc>.
- 3) All statements are based on our present knowledge and are subject to change at any time due to technical requirements and development.
- 4) Infineon products are not classified as "hazardous substances" according to the definition in the EU Directive 67/548/EC and do therefore not require Material Safety Data Sheets.

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