

## Material Composition Product Declaration

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## Material Composition Product Declaration

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### 1. Product List

This document applies to the following products:

|                |       |         |          |         |       |         |              |
|----------------|-------|---------|----------|---------|-------|---------|--------------|
| INFINITYEP     | Lc080 | Lm075   | Lt1245R  | Lt-1610 | Lu07* | Lw07*   | La2000PAFL   |
| INFINITY1-1    | Lc170 | Lm085   | Lt1265R  | Lt-1630 | Lu10* | Lw11*   | La2000PIOK   |
| INFINITY1-2    | Lc370 | Lm11059 | Lt16059H | Lt-1900 | Lu125 | Lw11057 | La30.5ML     |
| INFINITY1-3    |       | Lm13*   | Lt225    | Lt-1950 | Lu13* | Lw11059 | La30.8MYRL   |
| INFINITY1-5    |       | Lm16*   | Lt29059  | Lt-1980 | Lu16* | Lw13*   | La303L       |
| INFINITY2-1R   |       |         | Lt29059H | Lt-2020 | Lu17* | Lw16*   | La303ML      |
| INFINITY2-2    |       |         | Lt345R   | Lt-2050 | Lu20* | Lw16059 | La303MYL     |
| INFINITY2-3    |       |         | Lt365R   | Lt-2420 | Lu37* | Lw23*   | La4000PAFL   |
| INFINITY2-5    |       |         | Lt425    | Lt-2450 |       | Lw56*   | La4001TA-KIT |
| INFINITY3-1    |       |         | Lt545R   | Lt-2470 |       | Lw57*   | La4002       |
| INFINITY3-1UR  |       |         | Lt665R   | Lt-2850 |       |         | La4003       |
| INFINITY3-3UR  |       |         | Lt945R   | Lt-3200 |       |         |              |
| INFINITY3-6UR  |       |         | Lt965R   | Lt-3840 |       |         |              |
| INFINITY3S-1UR |       |         |          | Lt-4020 |       |         |              |
| INFINITY5-3    |       |         |          | Lt-4030 |       |         |              |
| INFINITY5-5    |       |         |          | Lt-4040 |       |         |              |
| INFINITY8-2    |       |         |          | Lt-4060 |       |         |              |
| INFINITY8-3    |       |         |          | Lt-4430 |       |         |              |
| INFINITY8-8    |       |         |          | Lt-4510 |       |         |              |
| INFINITY8-9    |       |         |          | Lt-5300 |       |         |              |
| INFINITY8-20   |       |         |          | Lt-5500 |       |         |              |
| INFINITYX-32   |       |         |          | Lt-5470 |       |         |              |
|                |       |         |          | Lt-6480 |       |         |              |

Note 1: The “\*” is used to include any and all numbers (example: “Lu07\*” includes Lu070 and Lu075).

Note 2: Suffixes for chroma and special configurations are included (example: “Lt225” includes Lt225M-NIR).

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### 2. Declaration: European Directive 2011/65/EU Restriction of Hazardous Substances (RoHS) as amended by EU 2015/863

The products listed above conform to the following Directive articles:

**Article 4(1):** Product does not contain restricted substances above maximum concentration values tolerated by weight in homogeneous materials, as follows:

- Lead (0.1 %)
- Mercury (0.1 %)
- Cadmium (0.01 %)
- Hexavalent chromium (0.1 %)
- Polybrominated biphenyls (PBB) (0.1 %)
- Polybrominated diphenyl ethers (PBDE) (0.1 %)
- Bis(2-Ethylhexyl) phthalate (DEHP) (0.1%)
- Benzyl butyl phthalate (BBP) (0.1%)
- Dibutyl phthalate (DBP) (0.1%)
- Diisobutyl phthalate (DIBP) (0.1%)

**Article 4(6):** Applications exempted from restriction:

- 6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight.
- 6(b) Lead as an alloying element in aluminum containing up to 0.4% lead by weight.
- 6© Copper alloy containing up to 4 % lead by weight.
- 7(a) Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead).
- 7©-1 Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices, or in a glass or ceramic matrix compound).
- 7©-2 Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher.

**Declaration:**

Supplier certifies that the information provided in this Declaration is true and correct to the best of its knowledge and belief. While Supplier has used reasonable methods to ensure the accuracy of this information, Supplier has relied upon information provided by others that Supplier is not able to independently verify. Supplier acknowledges that Customer will rely upon this Declaration in determining the compliance of Customer's products with European Union laws that implement the RoHS Directive. If Customer and Supplier enter or have entered into a written agreement with respect to the purchase and sale of the identified product, the terms and conditions of that agreement, including any warranty rights and/or remedies, shall be determinative of Supplier's liability and Customer's remedies for that product, including any disputes with respect to the information contained in this Declaration.

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### 3. Declaration: European Regulation (EC) No 1907/2006 Registration, Evaluation Authorization and Restriction of Chemicals (REACH)

Teledyne Lumenera manufactures products that would be considered an Article according to regulation Article 3(3): “an object which during production is given a special shape, surface or design which determines its function to a greater degree than its chemical composition”.

As a manufacturer established outside of the European Economic Area (EEA), Teledyne Lumenera does not have direct obligations under the REACH Regulation however we understand that the businesses that import our products into the EEA may have such obligations.

The following requirements may be of relevance to importers:

1. **Article 7(1): Registration** – if substances in articles are intended to be released during normal and reasonably foreseeable conditions of use and are present exceeding one tonne per year they are required to be registered.

Teledyne Lumenera products do not contain any substances intended to be released during normal and reasonably foreseeable use conditions.

2. **Article 7(2): Notification** – when substances of very high concern (SVHC) included on the candidate list for authorization are imported in amounts in excess of 1 tonne per year and present in articles in concentrations > 0.1% wt/wt of the article notification of the European Chemical Agency (ECHA) is required.

Teledyne Lumenera does not import SVHCs in amounts in excess of 1 tonne per year and products do not contain SVHCs as identified in the latest ECHA Authorization List (link provided below) in excess of 0.1% wt/wt of the Article.

<https://echa.europa.eu/candidate-list-table>

3. **Article 33: Communicate** – when SVHCs included on the candidate list are included in articles in concentrations about 0.1% wt/wt of the article recipients of the articles must be provided information for the Articles safe use.

Some Teledyne Lumenera products may contain SVHCs as identified in the latest ECHA Candidate List of Substances (link provided below) in excess of 0.1% wt/wt of the article. Refer to Table 1 for a list of SVHCs that are used in some Articles within this product.

<https://echa.europa.eu/candidate-list-table>

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**Table 1**

| Substance Name         | EC number | CAS Number | Product Applicability  |
|------------------------|-----------|------------|--|
| Lead Oxide             | 215-267-0 | 1317-36-8  | INFINITY 1-2,<br>INFINITY 1-3,<br>INFINITY2-1,<br>INFINITY2-2, Lm07*,<br>Lm13*, Lm16*, Lu17*,<br>Lu20*, Lw23*, Lw56* |
| Diboron Trioxide       | 215-125-8 | 1303-86-2  | INFINITY 1-2,<br>INFINITY 1-3,<br>INFINITY2-1,<br>INFINITY2-2, Lm07*,<br>Lm13*, Lm16*, Lu17*,<br>Lu20*, Lw23*, Lw56* |
| Lead                   | 231-100-4 | 7439-92-1  | All, as per RoHS exemptions; see above   |
| 1-Methyl-2-pyrrolidone | 212-828-1 | 872-50-4   | INFINITY2-2,<br>INFINITY2-3,<br>INFINITYX-32, Lm07*,<br>Lu07*, Lw07*, Lw133*,<br>Lw23*                               |
| 4-Nonylphenol          | 284-325-5 | 84852-15-3 | See Note 6   |

Note 3: As above, the “\*” is used to include any and all numbers.

Note 4: As above, suffixes for chroma and special configurations are included.

Note 5: Lu10\* cameras include components sourced prior to the availability of current REACH documentation.

Note 6: Cameras without protective windows or cover glass may be sealed with tape containing 4-Nonylphenol for protection during shipping. This tape does not constitute part of the product.

4. **Article 56: General Provisions** – substances incorporated into articles included in Annex XIV cannot be placed on the market for use after the sunset date unless it has been authorized or exempted.

Teledyne Lumenera monitors the composition of materials used within its products and will comply with the provisions based on the contents of Annex XIV by the applicable sunset dates.

<https://echa.europa.eu/authorisation-list>

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5. **Article 67: General Provisions** – substances in an article for which Annex XVII contains a restriction shall not be placed on the market for use unless it complies with the condition of restriction.

Teledyne Lumenera products do not contain restricted substances as identified (link provide below) in accordance with applicable conditions.

<https://echa.europa.eu/substances-restricted-under-reach>

**Disclaimer:**

While Teledyne Lumenera has used reasonable methods to ensure the accuracy of the information above, Teledyne Lumenera has relied upon information provided by its suppliers that Teledyne Lumenera is not able to independently verify.

### 4. Contact Information

Email: [info@lumenera.com](mailto:info@lumenera.com)

### 5. Revision History

| Date       | Rev | Action         | Originator  | Change   |
|------------|-----|----------------|-------------|--|
| 2020-03-22 | 1   | Original Issue | A. MacPhail | -  |
| 2021-10-15 | 2   | Update         | A. MacPhail | Add camera models; add 1-Methyl-2-pyrrolidone to Table 1 |
| 2022-11-28 | 3   | Update         | A. MacPhail | Add camera models  |
| 2023-07-11 | 4   | Update         | A. MacPhail | Add cables to Product List                               |