



Product Material Declaration Datasheet

Issue Date: September 26, 2023

Products: Impinj R700 and R720 RAIN RFID readers
Impinj Part Numbers: IPJ-R700-241, IPJ-R700-243, IPJ-R720-243, and IPJ-R720-343.

Summary:

RoHS Impinj R700 RAIN RFID readers are RoHS compliant. Since all part components within the reader have been purchased and processed to the RoHS standard, the entire assembly meets the Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS2), and 2015/863 (RoHS3) including exemptions specified below:

Exemption	Exemption Description
6(a)	Lead as an alloying element in steel for machining purposes and in galvanised 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(c)	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(c)-I	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

REACH

The products listed contain substances above the legal threshold that are on the Candidate List of Substances of Very High Concern (SVHC). Our company's intention is that all products sold to our EU and EEA customers by our legal entities in Europe are compliant with REACH 235 regulatory requirements.

Article 35 of the REACH regulation states that companies which produce electronic products have a duty to inform the presence of any REACH Candidate List Substances within supplied articles above the 0.1% by weight threshold. Impinj with its supplier has identified materials used within some of



its products that may contain SVHC substances. These substances are disclosed as:

SVHC Substance Name >0.1% (w/w)	CAS Number
Lead	7439-92-1
Diboron Trioxide	1303-86-2
1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1
4,4'-isopropylidenediphenol	80-05-7

Detail:

RoHS

Table 1 identifies the environmentally banned substances related to the Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS2), and 2015/863 (RoHS3). Impinj products do not intentionally contain these substances beyond trace element amounts.

TABLE 1

Substances / Compounds	Weight (mg)	PPM	Analysis
Hexavalent Chromium and Compounds	0	<1000	MSDS/Supplier
Lead and Lead Compounds	0	<1000	MSDS/Supplier
Mercury and Mercury Compounds	0	<1000	MSDS/Supplier
Polybrominated Biphenyls (PBB)	0	<1000	MSDS/Supplier
Polybrominated Diphenylethers (PBDE)	0	<1000	MSDS/Supplier
Bis(2-ethylhexyl) phthalate (DEHP)	0	<1000	MSDS/Supplier
Butyl benzyl phthalate (BBP)	0	<1000	MSDS/Supplier
Dibutyl phthalate (DBP)	0	<1000	MSDS/Supplier
Diisobutyl phthalate (DIBP)	0	<1000	MSDS/Supplier
Cadmium and Cadmium Compounds	0	<100	MSDS/Supplier

REACH

Our Company's intention is that all products sold to our EU and EEA customers by Our Company legal entities in Europe (2) are compliant with REACH 235 regulatory requirements.

REACH requires registration for individual substances (1) (on their own or in preparations (3)) greater than one metric ton per year produced or imported.

Each importer is responsible for his own compliance with REACH 235; and Our Company products bought from a supplier outside of EU/EEA may not necessarily be compliant with REACH 235 requirements.

Most of the products we sell do not, to our current knowledge, contain substances above the legal threshold (4) that are on the Candidate List of Substances of Very High Concern (SVHC substances) as published on the ECHA website on June 14, 2023. For those few products that contain an SVHC, we notify our direct customers and distributors to inform them of the presence of an SVHC and our plans to address the issue.



To fully understand the obligations that you as our customer have under REACH, we recommend that you consult the REACH website at http://echa.europa.eu/home_en.asp

- (1) Substance: a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition (REACH, Article 3.1)
- (2) This includes the Our Company legal entities in the EU/EEA, as well as Our Company de Nemours International Sàrl and Our Company International Operations
- (3) Preparation: means a mixture or solution composed of two or more substances (REACH, Article 3.2)
- (4) Inclusion of a substance on the Candidate List may impose immediate legal obligations upon companies whose chemical products or articles contain more than 0.1 wt% of the substances. You can find more information about these obligations on the ECHA website: http://echa.europa.eu/chem_data/authorisation_process/candidate_list_obligations_en.asp

Conclusion: Impinj will continue to follow all legal requirements regarding environmental legislation. Impinj will also support customers "green" programs as a leader in RFID products.

A handwritten signature in black ink that reads "J Raisinghani". The signature is written in a cursive style and is underlined with a single horizontal line.

Jasleen Raisinghani
Vice President of Operations
Impinj, Inc

