

# **Product Material Declaration Datasheet**

Issue Date: August 10, 2023

 Products:
 Monza 4 (80.0 μg/die)

 Monza 5 (50.0 μg/die)
 Monza R6 (50.0 μg/die)

 Monza R6 (50.0 μg/die)
 Monza R6-P (50.0 μg/die)

 Monza R6-A (50.0 μg/die)
 Impinj 730 (34.0 μg/die)

 Impinj 750 (34.0 μg/die)
 Impinj 770 (37.0 μg/die)

 Impinj 775 (37.0 μg/die)
 Impinj 780 (50.0 μg/die)

 Impinj 781 (50.0 μg/die)
 Impinj 830 (27.3μg/die)

 Impinj 850 (27.3μg/die)
 Impinj 850 (27.3μg/die)

Impinj Part Number: IPJ-W15XX-XXX Impinj Part Number: IPJ-W16XX-XXX Impinj Part Number: IPJ-W17XX-XXX Impinj Part Number: IPJ-W1710-XXX Impinj Part Number: IPJ-W1730-XXX Impinj Part Number: IPJ-M730A-XXX Impinj Part Number: IPJ-M750A-XXX Impinj Part Number: IPJ-M775A-XXX Impinj Part Number: IPJ-M780A-XXX Impinj Part Number: IPJ-M781A-XXX Impinj Part Number: IPJ-M830A-XXX Impinj Part Number: IPJ-M830A-XXX

### Summary:

- RoHS Impinj Endpoint die, supplied by Impinj, Inc., are RoHS compliant, based upon the analysis results. Since all part numbers within these four families meet the Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS2), and 2015/863 (RoHS3), special part numbers are not required.
- REACH The products listed do not, to our current knowledge, 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.

### 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.

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

### TABLE 1

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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 235requirements.

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 <a href="http://echa.europa.eu/home\_en.asp">http://echa.europa.eu/home\_en.asp</a>.

- (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 Sàrl.
- (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\_obli gations\_en.asp.



# Additional Substances not addressed by RoHS or REACH Directives:

Table 2 identifies additional substances currently NOT incorporated into the Impinj Endpoint IC products by design. This list includes items that are not intentionally added but may not list impurities or trace elements within individual components of any substance.

Additional Substances/Compounds         PPM         Analysis           Fluorinated Compounds         <1.0         MSD/Supplier           Perfluorocctane Sulfonates (PFOS)         0         MSD/Supplier           Ozone Depleting Substances         0         MSD/Supplier           Polychlorinated Biphenyls (PCB)         0         MSD/Supplier           Polychlorinated Napthalenes (PCN)         0         MSD/Supplier           Formaldehyde         0         MSD/Supplier           Shortchain Clorinated Paraffins (SCCP)         0         MSD/Supplier           Tributyl Tin Oxide (TBTO)         0         MSD/Supplier           Delychlorinated trophenyls (PCT)         0         MSD/Supplier           Chlorinated organic Compounds         0         MSD/Supplier           Brominated Organic Compounds         0         MSD/Supplier           Asbestos         0         MSD/Supplier           Formaldehyde         0         MSD/Supplier           Polyvihorinated trophenyls (PCT)         0         MSD/Supplier           Asbestos         0         MSD/Supplier           Asbestos         0         MSD/Supplier           Polyvinyl Chloride (PVC) and PVC Blends         0         MSD/Supplier           Beryllium Copper			
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DibromobiphenylNot DetectedMSDS/SupplierTribromobiphenylNot DetectedMSDS/SupplierTetrabromobiphenylNot DetectedMSDS/SupplierPentabromobiphenylNot DetectedMSDS/SupplierHexabromobiphenylNot DetectedMSDS/SupplierHeptabromobiphenylNot DetectedMSDS/SupplierOctabromobiphenylNot DetectedMSDS/Supplier	Halogen-lodine (I)	Not Detected	MSDS/Supplier
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HeptabromobiphenylNot DetectedMSDS/SupplierOctabromobiphenylNot DetectedMSDS/Supplier			
Octabromobiphenyl Not Detected MSDS/Supplier			
		Not Detected	
	Nonabromobiphenyl	Not Detected	MSDS/Supplier

TABL	E 2
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Decabromobiphenyl	Not Detected	MSDS/Supplier
Monobromodiphenyl ether	Not Detected	MSDS/Supplier
Dibromodiphenyl ether	Not Detected	MSDS/Supplier
Tribromodiphenyl ether	Not Detected	MSDS/Supplier
Tetrabromodiphenyl ether	Not Detected	MSDS/Supplier
Pentabromodiphenyl ether	Not Detected	MSDS/Supplier
Hexabromodiphenyl ether	Not Detected	MSDS/Supplier
Heptabromodiphenyl ether	Not Detected	MSDS/Supplier
Octabromodiphenyl ether	Not Detected	MSDS/Supplier
Nonabromodiphenyl ether	Not Detected	MSDS/Supplier

Table 3 identifies substances currently incorporated into the Monza 4 and 5 family products. This list includes all items that are intentionally added and may not list impurities or trace elements within individual components of any substance.

**TABLE 3** 

Incorporated Substances/Compounds	РРМ	Analysis
Silicon	> 950000	MSDS/Supplier
Nickel	< 215000	MSDS/Supplier
Aluminum	< 20000	MSDS/Supplier
Tungsten	< 20000	MSDS/Supplier
Gold	< 7000	MSDS/Supplier
Silicon Oxide	< 5000	MSDS/Supplier
Silicon Nitride	< 5000	MSDS/Supplier
Titanium	< 40	MSDS/Supplier
Cobalt	< 20	MSDS/Supplier
Arsenic	< 2	MSDS/Supplier

Table 4 identifies substances currently incorporated into the Monza R6 and R6-P product. This list includes all items that are intentionally added and may not list impurities or trace elements within individual components of any substance.

Incorporated Substances/Compounds	PPM	Analysis
Silicon	> 950000	MSDS/Supplier
Copper	<103000	MSDS/Supplier
Aluminum	< 20000	MSDS/Supplier
Tungsten	< 20000	MSDS/Supplier
Nickel	< 40000	MSDS/Supplier
Titanium	<30000	MSDS/Supplier
Silicon Oxide	< 5000	MSDS/Supplier
Silicon Nitride	< 5000	MSDS/Supplier

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Vanadium	<3000	MSDS/Supplier
Cobalt	< 20	MSDS/Supplier
Arsenic	< 2	MSDS/Supplier

Table 5 identifies substances currently incorporated into the Impinj M700 series. This list includes all items that are intentionally added and may not list impurities or trace elements within individual components of any substance.

### TABLE 5

Incorporated Substances/Compounds	РРМ	Analysis
Silicon	> 950000	MSDS/Supplier
Silicon Oxide	< 25000	MSDS/Supplier
Copper	< 15000	MSDS/Supplier
Silicon Nitride	< 10000	MSDS/Supplier
Aluminum	< 10000	MSDS/Supplier
Tungsten	< 5000	MSDS/Supplier
Tantalum	< 1000	MSDS/Supplier
Tantalum Nitride	< 1000	MSDS/Supplier
Nickel	< 100	MSDS/Supplier
Titanium	< 50	MSDS/Supplier
Polyimide	< 50	MSDS/Supplier
Arsenic	< 10	MSDS/Supplier
Titanium Nitride	< 10	MSDS/Supplier
Gold	< 5	MSDS/Supplier

# 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.

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Jasleen Raisinghani Vice President of Operations Impinj, Inc.

