

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **1** OF **24**

ISSUE	ORIGINATOR	DETAILS OF CHANGE	DATE
A	W.Janisch	This specification serves to re-release the Motorola 1202897W18 specification as a Motorola Mobility Specification. The overall text of the original specification was simplified. Additional detail was provided on "Misc." reporting requirements, BFR&PVC& Tin containing substance limits were amended, exemptions were provided for the use of DBT and BFR's, and Annex E was added to provide a comprehensive list of Motorola defined Exemptions to substance limits found in Appendix C.	01 April 2011
B	W.Janisch	This revision serves to modify Supplier reporting requirement which will include the use of IPC1752A data reporting and requires Suppliers to apply multiple Exemptions provided in Annex E for the following new Compliance Sections: RoHS, I, II, V, and Surface. Links to Motorola reporting tools and training material were updated and additional guidance is provided on the use of "Misc" data reporting, and the use of Cr and Ni in the surface of products.	01 December 2011

1. SCOPE:

This specification sets forth Motorola Mobility Inc. ("Motorola") materials disclosure requirements for items and materials used in the manufacture and delivery of products to Motorola customers. The list of substances that Motorola has targeted for exclusion, reduction or reporting is contained in Appendix A.

2. DEFINITIONS:

Assembly - An Assembly is a collection of components and materials that are not intended to be disassembled, or cannot reasonably be disassembled without the use of a specialized tool, by the end user. Products are considered to be assemblies.

Banned Substances - These substances are not allowed for use at any level unless noted as an exemption in the acceptance criteria.

CAS Number - or CAS (Chemical Abstract Service) Registry Number (CASRN) is a unique number identifying chemical substances. CASRNs, assigned by the CAS Registry, a division of the American Chemical Society, are the only method in existence for identifying discrete substances. CASRNs may be obtained from raw material suppliers or directly from the CAS Registry.

Controlled Substances - These substances are limited for use in the manufacturing process or in certain applications at the levels specified in Appendix C.

EEE - Electrical and Electronic Equipment

Homogeneous Material - A material, as defined by the European Union Technical Adaptation Committee, that cannot be mechanically disjointed into different materials; homogeneous materials are materials "of uniform composition throughout." Ceramics, glass, metals, alloys, paper, board, resins, coatings are provided as examples. The term "mechanically disjointed" would mean "that the materials can be, in principle, separated by mechanical actions such as for example: unscrewing, cutting, crushing, grinding and abrasive processes."

The following examples are provided:

Material or Methods SpecificationTITLE: **Controlled and Reportable Materials Disclosure**REVISION DATE: **01-Dec-2011**ISSUE: **B**PAGE: **2** OF **24**

- A plated lead frame has two materials, the plating material and the lead frame, that must be independently evaluated for controlled materials.
- A plastic cover is a "homogeneous material" if it consists of one type of plastic that is not coated with, or has attached to it or inside it, any other kinds of materials. In this case, the Maximum Concentration Values (MCV) of the RoHS directive would apply to the plastic.
- An electric cable that consists of metal wires surrounded by non-metallic insulation materials is an example of a "non-homogeneous material," because the different materials could be separated by mechanical processes. In this case the MCVs would apply to each of the separated materials individually.
- A semiconductor package contains many homogeneous materials, including plastic molding material, tin-electroplating coatings on the lead frame, the lead frame alloy and gold-bonding wires.

IPC1752 - is a standard for electronic data exchange for Environmental Data developed by IPC with participation from major OEMs, Contract Manufacturers, Component Manufacturers and Material suppliers. The number or letter following 1752 represents a specific form number developed under this standard

Intentionally Added - "Intentionally Added" shall mean "deliberately utilized in the formulation of a material or part where its continued presence is desired in the final product to provide a specific characteristic, appearance or quality". Intentionally Added substances and materials can occur at any point in the supply chain, i.e. a sub-tier supplier may add a material or substance that a tier 1 supplier must report to Motorola. Further, catalysts introduced during processing are always considered to be intentionally added materials. The use of recycled materials as feedstock for the manufacture of new products, where some portion of the recycled materials may contain amounts of regulated metals, is not to be considered as intentionally added.

Material - A "Material" is made up of one or more "Substances". Note: Very few materials are composed of only one substance (e.g., all metals contain other substances at low concentrations either as unintentional contaminants or purposely introduced alloying agents).

Motorola Mobility IPC Creator - A Microsoft Excel Based Tool used to generate IPC 1752 A Class D XML Material Disclosures. Motorola IPC Creator can be downloaded from:

<http://responsibility.motorola.com/index.php/suppliers/materialdisclose>

Part - A Part is any item or assembly that a supplier sells to Motorola that is incorporated into Motorola's products.

Post-Consumer Recycled Content - Recycled content in products or parts which have been assembled using material that has completed its original life cycle and has been recycled into another part rather than having been disposed of as solid waste.

Post-Industrial Recycled Content - Recycled content in product parts or materials which have been diverted from the production stream and are industrial waste or by-products (sometimes referred to as factory scrap). Post-industrial scrap can be used to produce materials or parts in the same or a different process than the original.

Reportable Substances - These substances are not currently banned but must be reported for other purposes.

Reporting Threshold - Concentration level which defines the limit equal to or above which the presence of a substance or material must be reported.



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **3** OF **24**

Motorola Mobility Scriba Tool - An Industry IPC 1752A XML tool modified by Motorola Mobility to allow full compatibility with Motorola Mobility Environmental Data Management Systems. This tool is recommended for preparing Class A non-homogeneous declarations which maybe used in unique circumstances only if pre-approved by Motorola Mobility. Motorola Mobility Scriba Tool can be downloaded from:

<http://responsibility.motorola.com/index.php/suppliers/materialdisclose>

Substance - A "Substance" is a chemical element, compound, or polymer and has a CAS number. For example: stainless steel is a material typically composed of the following substances: Iron; Carbon; Manganese; Silicon; Chromium; Nickel; and others. The polymer Polycarbonate is a "Substance" because there is a CAS number (25037-45-0) for it. Lexan is the brand name for a Material. Lexan is not a "Substance" because it includes other constituents in addition to the Polycarbonate Substance and because it does not have a CAS number.

Substance Concentration – Concentration shall be expressed in parts per million (ppm) The formula for parts per million (ppm) is $1,000,000 * \text{mass substance} / \text{mass of the homogeneous material}$. Concentrations are unit-less, for example $100 \text{ ppm} = 0.01\% = 100 \text{ mg/kg}$.

Sub-Tier Supplier - Any company selling or providing a material or part that is incorporated into Motorola products but is not directly sold to Motorola.

Supplier - The Company selling or providing a material part, or assembly to Motorola that Motorola intends to use in its products. Supplier, tier 1 supplier, and vendor are used interchangeably.

3. MOTOROLA'S RESPONSIBILITIES:

It is the responsibility of Engineering or personnel who prepare component and/or specifications/contracts to:

3.1. Ensure the appropriate reference to this specification on all prints for Motorola Items as follows:

3.1.1. All prints, specifications and contracts for Motorola parts must include a reference to the **1202897W18-MD-Home**.

3.1.2. Print notes must include a reference to the appropriate section in Appendix C applicable to the Motorola Item, and should detail any exemptions which will be permitted.

3.1.3. Print notes shall include the **1202897W18-MD-Home** reference without revision.

3.1.4. Recommended language for use in prints:

"Supplier must provide all required information and comply with Motorola's Controlled and Reportable Materials Disclosure 1202897W18-MD-Home requirements. **MOTOROLA WILL NOT QUALIFY PARTS THAT DO NOT MEET THE APPROPRIATE ACCEPTANCE CRITERIA AS OUTLINED IN APPENDIX C.**"

3.2. Ensure that materials and parts specified for designs comply with this specification, including OEM materials and parts.

4. SUPPLIER'S RESPONSIBILITIES:

It is the responsibility of all suppliers to:

4.1. Comply with the reporting requirements detailed in Clause 5 of this specification for all parts and assemblies. Note that the specific acceptance criteria are defined by Appendix C (Section I, II, or V) as dictated by the specific Motorola Business (Mobile Devices or Home).

Material or Methods SpecificationTITLE: **Controlled and Reportable Materials Disclosure**REVISION DATE: **01-Dec-2011**ISSUE: **B**PAGE: **4** OF **24**

- 4.2. Report Controlled and Reportable substances using the IPC 1752A Class D (Homogeneous Material) format hereafter referred to as the IPC 1752A. The Motorola Mobility IPC Creator tool is recommended to generate the required files. The latest revision of the tool must always be used and can be found at: <http://responsibility.motorola.com/index.php/suppliers/materialdisclose>. Instructions on how to complete this form are available at this same website. Any valid IPC 1752A Class D (homogeneous material) declaration generated from another tool is also acceptable. Motorola Mobility Scriba Tool may also be used.
- 4.3. Material content data reported should be the worst case if more than one bill of material or production operation exists.
- 4.4. Cascade the requirements in this specification to their sub-tier suppliers. Sub-tier supplier data input is a must for complete material and substance data determination.
- 4.5. Report any change to the material content of an approved part or assembly by re-submitting an updated report using the IPC 1752A and complying with all other applicable Motorola change control requirements.
- 4.6. Motorola may allow the use of IPC1752A Class A Declaration (non-homogeneous material) , in specific limited applications. The supplier must receive prior authorization from the in-business product compliance organization to report using any format other than the IPC1752A Declaration Class D (homogeneous material).
- 4.7. Completion of this report and submission to Motorola constitutes a testament that all the information is true and correct to the best of the supplier's knowledge.
- 4.8. Supplier agrees to notify Motorola of any changes to the product that could affect compliance and or material or substance make up of the part as required under Motorola PCN process.

5. REPORTING:

Material content data reported by suppliers is not shared outside of Motorola at the part level (unless required for compliance or certification). Motorola reserves the right to use supplier material content data to report the material content of our products to our customers or regulatory agencies, without revealing supplier information unless required by law.

When a lab analysis is used to determine the composition of a homogeneous material, it should be performed per international standards, such as those currently under development by the IEC. Note: Material assay is not intended to fulfill all requirements of this specification.

5.1. Reporting instructions are as follows:

- 5.1.1. Report 100% of all homogeneous materials that are in the part or assembly.

Note: Motorola requires the reporting of all inks, adhesives, platings, and paints as homogeneous materials; regardless of the medium onto which they are printed this includes adhesives on labels and tapes.

- 5.1.2. Report all Controlled and Reportable Substances with concentrations in excess of the reporting thresholds noted in Appendix A as contained within each homogenous material.

- Example: A eutectic Sn/Pb solder coating is used as a finish on a capacitor. This would require reporting the Pb concentration based on the weight of that coating. Because this is a eutectic solder, the concentration of Pb is well known at 37%. In other cases, the weight



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **5** OF **24**

of the homogeneous material (in this case Sn/Pb) would have to be known to calculate the concentration.

5.1.3. Apply appropriate exemptions from Annex E if a compliance threshold is exceeded. This may require the application of multiple exemptions to a single substance if the substance category has overlapping restrictions in different Compliance sections outlined in Appendix C. (e.g. Section RoHS and Section II). Exemptions must be appropriate to the use of the substance in a material. (e.g. Lead solder exemption must not be used for lead in the ceramic of electronic components)

5.1.4. When reporting the composition of homogenous materials, the use of "MISC" (Miscellaneous) may be used for a substance when none of the Banned, Controlled, and Reportable substances per Appendix A of this specification are present in the material above the reporting thresholds. Reporting "MISC" at a material level is not acceptable and can only exceed 10% by weight in a single homogeneous material under the following circumstances:

5.1.4.1. The actual CAS# or Name is known, but can not be reported due to Intellectual Property (IP) reasons. In this case, the supplier must provide a certification from the original manufacturer of the material in question that the substance(s) are known but cannot be reported for IP reasons, and that none of the Banned, Controlled, and Reportable substances per Appendix A of this specification are present in the material above the reporting thresholds. As an alternative, an MSDS or material laboratory reports may be acceptable subject to review and approval by Motorola. Note, a RoHS only lab report is not sufficient to demonstrate compliance with W18 requirements.

5.1.4.2. In all cases, Motorola reserves the right to reject a submission without sufficient supplier evidence to demonstrate compliance.

5.1.4.3. Misc substances must be reported as CAS# = "SYSTEM" and substance name = "MISC., NOT TO DECLARE". Any deviation from this exact text will result in an unknown CAS# error upon submission.

5.1.5. The supplier is responsible to ensure that any units used are consistent and provide an accurate accounting of the substance concentration.

Finally, do not confuse Acceptance Criteria and the related exemptions with reporting requirements. Reporting a substance or material is always required even if it is exempt or meets the Part Acceptance Criteria. For example, lead in ceramics must be reported.

6. PART ACCEPTANCE CRITERIA:

Motorola will assign a compliance status for parts based on the acceptance criteria of the various sections of Appendix C. This status will determine the acceptability of parts for use. Motorola requires all parts to meet the acceptance criteria as outlined in Appendix C unless granted a formal waiver as defined in the internal exception policies (eg- for some spare and replacement parts, customer specification required parts, specific markets, etc). This applies to parts that reference this specification and the corresponding acceptance criteria of this specification. Please note that compliance with multiple sections is required for every part/product.

Note that reporting per this specification is always required, whether or not the acceptance criteria is met.

7. REFERENCE DOCUMENTS:

1210601A Packaging Requirements for Inbound Shipments to Motorola – a global Motorola specification

1213933E15 Motorola Global Packaging, Environmental Requirements Document – a global Motorola specification



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **6** OF **24**

1202897W19 Restricted Materials Testing Requirements –This specification defines the restricted materials testing requirements for parts sold to Motorola Mobile Devices. The test requirements will serve to support the 1202897W18 material disclosures for certain commodities.

For a copy of the above specification refer to your Motorola contact or Schedule Sharing.

8. REVISIONS:

9. APPROVALS:

Organization	Approver Name	Approver Signature	Date
Mobile Devices	Craig Gatto	Craig Gatto	11/18/11
Home	Joseph DiBiase	Joseph DiBiase	11/21/11
Supply Chain	Sue Boyce	Sue Boyce	11/18/11
Office of Sustainability	Bill Olson	Bill Olson	11/18/11
Global Regulatory and Policy	Bill Kierl	Bill Kierl	11/21/11

10. APPENDICES:

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **7** OF **24**
Appendix A: Banned, Controlled and Reportable Substances

Motorola defines the following minimum Reporting Thresholds for the following Banned, Controlled or Reportable Substance families. Please reference Section I, II, or V of Appendix C to obtain compliance Acceptance Thresholds, and reference Appendix E for exemptions to those Thresholds as noted.

Substances	Motorola Category	Reporting Threshold (ppm at a homogenous level unless otherwise indicated)
Asbestos, asbestos compounds	Banned	0
Chlorofluorocarbons and halons (Class I and II ozone depleting Chemicals). Must also be reported used in any processing of a part	Banned	0
Dimethylfumerate or dimethylformamide	Banned	0
Halogenated dioxins and furans	Banned	0
Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur Hexafluoride (SF6)	Banned	0
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-imethylethyl)-	Banned	0
Polychlorobiphenyls and derivatives (PCBs)	Banned	0
Polychloroterphenyls and derivatives (PCTs)	Banned	0
Antimony and antimony compounds	Controlled	100
Azo Dyes in leathers and textiles	Controlled	1
Arsenic and arsenic compounds	Controlled	100
Barium and barium compounds	Controlled	100
Brominated Flame Retardants (other than PBBs or PBDEs) (e.g. Tetrabromobisphenol-A)	Controlled	100
Chromium and chromium compounds	Controlled	100
Cobalt and cobalt compounds, except cobalt dichloride	Controlled	100
Cobalt dichloride	Controlled	10
Ethylene Glycol Monomethyl Ether and its acetate	Controlled	1

Material or Methods Specification
TITLE: Controlled and Reportable Materials Disclosure
REVISION DATE: 01-Dec-2011
ISSUE: B
PAGE: 8 OF 24

Ethylene Glycol Monoethyl Ether and its acetate	Controlled	1
Cadmium and cadmium compounds	Controlled	10
Chromium (VI) compounds	Controlled	100
Chromium (VI) compounds in leather and textiles	Controlled	1
Latex and latex compounds	Controlled	100
Lead and lead compounds	Controlled	100
Lead in cable jackets	Controlled	100
Mercury and mercury compounds that are intentionally added	Controlled	1
Nickel and nickel compounds	Controlled	100
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	Controlled	100
Polybrominated biphenyls (PBBs)	Controlled	100
Polybrominated diphenyl ethers (PBDEs) (including Nonabromodiphenyl ether)	Controlled	100
Phthalates	Controlled	100
PVC and vinyl chloride monomer	Controlled	100
Selenium and selenium compounds	Controlled	100
Short-chain chloroparaffins - chlorinated alkanes with 10–13 carbon atoms in the chain and a minimum of 48 percent chlorine by weight	Controlled	100
Tin and tin compounds	Controlled	100
Aluminum and aluminum compounds	Reportable	100
Amines, aliphatic	Reportable	100
Aniline salts	Reportable	100
Anthracene	Reportable	100
Aromatic amines and dyes	Reportable	100
Aromatic compounds as monomers (except where listed separately)	Reportable	100



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **9** OF **24**

Aromatic (Poly) Hydrocarbons (PAH and PCAH)	Reportable	100
4-Aminobiphenyl	Reportable	100
Beryllium and beryllium compounds	Reportable	100
Bismuth and bismuth compounds	Reportable	100
Certain short and medium chained chlorinated paraffins	Reportable	100
Chlorinated flame retardants	Reportable	100
Copper and copper compounds	Reportable	100
Ferrosilicon and alloys	Reportable	100
Formaldehyde	Reportable	100
Gold and compounds	Reportable	100
Halogenated aromatic compounds as monomers (including Polychlorinated Naphthalenes)	Reportable	100
Halogenates that produce acidic vapor with water	Reportable	100
Iron and iron compounds	Reportable	100
Magnesium and magnesium compounds	Reportable	100
Organic azo and azo-oxy compounds	Reportable	100
Organic halogen compounds (except where listed separately)	Reportable	100
Organic phosphorous compounds	Reportable	100
Organic silicon compounds	Reportable	100
Palladium and palladium compounds	Reportable	100
Perchlorates	Reportable	6 ppb
Perfluorocarbons	Reportable	100
Polybrominated Terphenyls	Reportable	100
Radioactive substances	Reportable	100



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **10** OF **24**

Rubidium and rubidium compounds	Reportable	100
Silver and silver compounds	Reportable	100
Small Fibers - All parts containing fibers or fibrils 5um (microns), or less, in diameter with a length: diameter ratio equal to or greater than 3:1	Reportable	100
Sulfur Hexafluoride	Reportable	100
Tantalum and tantalum compounds	Reportable	100
Tellurium and tellurium compounds	Reportable	100
Tetramethylthiuram disulfide (Thiram)	Reportable	100
Thallium and thallium compounds	Reportable	100
Zinc and zinc compounds	Reportable	100

Appendix B: Reserved

This space left blank intentionally for future revisions.

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **11** OF **24**
Appendix C: Acceptance Criteria

- **Home parts/products are required to comply with:**
 - **Section RoHS, Section II, and Section Surface**
- **Mobile Device parts/products are required to comply with:**
 - **Section RoHS, Section V, and Section Surface**
- **EcoMoto parts/products are required to comply with:**
 - **Section RoHS, Section I, and Section Surface**

Section RoHS: EU RoHS Product Acceptance Criteria

Substances	Motorola Category	Acceptance Threshold (ppm at a homogenous level unless otherwise indicated)	Reference
Cadmium and cadmium compounds	Controlled	100*	EU Directive 2011/65/EC (ROHS)
Chromium (VI) compounds	Controlled	1000*	EU Directive 2011/65/EC (ROHS))
Lead and lead compounds	Controlled	1000*	EU Directive 2011/65/EC (ROHS)
Mercury and mercury compounds (May not be intentionally added)	Controlled	1000*	EU Directive 2011/65/EC (ROHS), Swiss Ordinance on Reduction of Risk from Chemical Products , Various US states
Polybrominated biphenyls (PBBs)	Controlled	1000	Canada Regulation , EU Directive 2011/65/EC (ROHS)
Polybrominated diphenyl ethers (PBDEs)	Controlled	1000	EU Directive 2011/65/EC (ROHS), Various US states

* Exemptions may apply for specific usages above the given threshold. Please refer to Appendix E for a comprehensive list of available exemptions.



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **12** OF **24**

Section Surface: Motorola General Product Acceptance Criteria

Substances	Motorola Category	Acceptance Threshold (ppm at a homogenous level unless otherwise indicated)	Reference
Arsenic and arsenic compounds	Controlled	0*	Motorola Initiative
Barium compounds	Controlled	0*	Motorola Initiative
Cobalt and Cobalt compounds, except cobalt dichloride	Controlled	0*	Motorola Initiative
Latex and latex compounds	Controlled	0*	Motorola Initiative
Nickel and nickel compounds	Controlled	0*	EU Regulation 2006/66/EC
Selenium and selenium compounds	Controlled	0*	Motorola Initiative

* Exemptions may apply for specific usages above the given threshold. Please refer to Appendix E for a comprehensive list of available exemptions.

Section I: ECOMOTO Product Acceptance Criteria

In addition to Appendix C, Section V, the following substances that are listed cannot exceed the specified limit except where exemptions are noted.

Substances	Motorola Category	Acceptance Threshold (ppm at a homogenous level unless otherwise indicated)
Brominated Flame Retardants (other than PBBs or PBDEs) (e.g. Tetrabromobisphenol-A)	Controlled	1000
PVC and vinyl chloride monomer	Controlled	1000
Phthalates	Controlled	100

Note: "BFR Free" is defined as being 99.9% Br free at the final product level.

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **13** OF **24**
Section II: Global Compliance Acceptance Criteria (Home Parts)

The following substances that are listed cannot exceed the specified limit except where exemptions are noted. Please reference Appendix E for exemptions to thresholds if noted.

Substances	Motorola Category	Acceptance Threshold (ppm at a homogenous level unless otherwise indicated)	Reference
Asbestos, asbestos compounds	Banned	-	EU Directive 76/769/EEC
Chlorofluorocarbons and halons (Class I and II ozone depleting chemicals) (Must also be reported used in any processing of a part)	Banned	-	EU Directive 76/769/EEC
Dimethylfumerate	Banned	-	EU Directive 2009/251/EC
Halogenated Dioxins and Furans	Banned	-	German Regulation
Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur Hexafluoride (SF6)	Banned	-	EU Directive 842/2006/EC Austrian Regulation BGBl. II No 447/2002
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-imethylethyl)-	Banned	-	Japanese law - Article 13 of the Law concerning the Evaluation of Chemical Substances and Regulation of their Manufacture, etc.
Polychlorobiphenyls and derivatives (PCBs)	Banned	-	EU Directive 76/769/EEC
Polychloroterphenyls and derivatives (PCTs)	Banned	-	EU Directive 76/769/EEC
Azo Dyes in leathers and textiles	Controlled	30	EU Directive 2002/61/EC
Arsenic and arsenic compounds	Controlled	100*	EU Directive 2003/2/EC
Cobalt Dichloride	Controlled	100*	EU REACH EC 1907/2006
Cadmium, Chromium (VI), Lead and Mercury metals and compounds in packaging	Controlled	sum of metals not to exceed 100 ppm based on total package weight	EU Regulation 94/62/EC; various US states
Cadmium and cadmium compounds in "portable" batteries	Controlled	20 ppm of the total battery cell weight.	EU Regulation 2006/66/EC
Mercury and mercury compounds in batteries	Controlled	5 ppm of the total battery cell weight	EU Regulation 2006/66/EC
Chromium (VI) compounds in leather and textiles	Controlled	3	Germany - § 30 of the Food and Commodities Law (LMBG)



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **14** OF **24**

Ethylene Glycol Monomethyl Ether and its acetate	Controlled	5	California Safe Drinking Water and Toxic Enforcement Act (Prop 65)
Ethylene Glycol Monoethyl Ether and its acetate	Controlled	5	California Safe Drinking Water and Toxic Enforcement Act (Prop 65)
Lead in cable jackets	Controlled	300	California Safe Drinking Water and Toxic Enforcement Act (Prop 65)
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	Controlled	100	EU Directive 2006/122/EC
Short-chain chloroparaffins - chlorinated alkanes with 10–13 carbon atoms in the chain and a minimum of 48 percent chlorine by weight	Controlled	1000	Norway Product Regulations FOR-2004-06-01-922/ Swiss Ordinance on Reduction of Risk from Chemical Products
Tin compounds: Tributyl Tin Oxide (TBTO), Tributyl Tin (TBT), Triphenyl Tin (TPT), Dibutyl Tin (DBT), Dioctyl Tin (DOT)	Controlled	1000*	EU REACH EC 1907/2006

* Exemptions may apply for specific usages above the given threshold. Please refer to Appendix E for a comprehensive list of available exemptions.

Section III: Reserved

Section IV: Reserved

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **15** OF **24**
Section V: Mobile Devices business Compliance Acceptance Criteria

The following substances that are listed cannot exceed the specified limit except where exemptions are noted. Please reference Appendix E for exemptions to thresholds if noted.

Substances	Motorola Category	Acceptance Threshold (ppm at a homogenous level unless otherwise indicated)	Reference
Asbestos, asbestos compounds	Banned	-	EU Directive 76/769/EEC
Chlorofluorocarbons and halons (Class I and II ozone depleting chemicals)	Banned	-	EU Directive 76/769/EEC
Dimethylfumerate	Banned	-	EU Directive 2009/251/EC
Halogenated dioxins and furans	Banned	-	German Regulation
Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur Hexafluoride (SF6)	Banned	-	EU Directive 842/2006/ECAustrian Regulation BGBl. II No 447/2002
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-imethylethyl)-	Banned	-	Japanese law - Article 13 of the Law concerning the Evaluation of Chemical Substances and Regulation of their Manufacture, etc.
Polychlorobiphenyls and derivatives (PCBs)	Banned	-	EU Directive 76/769/EEC
Polychloroterphenyls and derivatives (PCTs)	Banned	-	EU Directive 76/769/EEC
Azo Dyes in leathers and textiles	Controlled	30	EU Directive 2002/61/EC
Brominated Flame Retardants (other than PBBs or PBDEs)	Controlled	1000*	Motorola Initiative
Cadmium, Chromium (VI), Lead and Mercury metals and compounds in packaging	Controlled	sum of metals not to exceed 100 ppm based on total package weight	EU Regulation 94/62/EC ; various US states
Cadmium and cadmium compounds in "portable" batteries	Controlled	20 ppm of the total battery cell weight.	EU Regulation 2006/66/EC
Mercury and mercury compounds in batteries	Controlled	5 ppm of the total battery cell weight	EU Regulation 2006/66/EC
Chromium (VI) compounds in leather and textiles	Controlled	3	Germany - § 30 of the Food and Commodities Law (LMBG)
Ethylene Glycol Monomethyl Ether and its acetate	Controlled	5	California Safe Drinking Water and Toxic Enforcement Act (Prop 65)

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **16** OF **24**

Ethylene Glycol Monoethyl Ether and its acetate	Controlled	5	California Safe Drinking Water and Toxic Enforcement Act (Prop 65)
Cobalt dichloride	Controlled	100	EU REACH EC 1907/2006
Lead in cable jackets	Controlled	300	California Proposition 65
Mercury and mercury compounds	Controlled	1000*	Swiss Ordinance on Reduction of Risk from Chemical Products , Various US states
Mercury and mercury compounds in batteries	Controlled	5 ppm of the total battery cell	EU Regulation 2006/66/EC Swiss Ordinance on Reduction of Risk from Chemical Products , Various US states
PVC and vinyl chloride monomer	Controlled	1000*	Motorola Initiative
Phthalates	Controlled	100*	Motorola Initiative
Polybrominated biphenyls (PBBs)	Controlled	1000	Canada Regulation , EU Regulation 2002/95/EC (ROHS) Motorola Initiative
Polybrominated diphenyl ethers (PBDEs)	Controlled	1000	EU Regulation 2002/95/EC , USA, (ROHS)
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	Controlled	100	EU Directive 2006/122/EC EU Regulation
Short-chain chloroparaffins - chlorinated alkanes with 10–13 carbon atoms in the chain and a minimum of 48 percent chlorine by weight compounds	Controlled	1000	Norway Product Regulations FOR-2004-06-01-922/ Swiss Ordinance on Reduction of Risk from Chemical Products
Tin compounds: Tributyl Tin Oxide (TBTO), Tributyl Tin (TBT), Triphenyl Tin (TPT), Dibutyl Tin (DBT), Dioctyl Tin (DOT)	Controlled	1000*	EU REACH EC 1907/2006

* Exemptions may apply for specific usages above the given threshold. Please refer to Appendix E for a comprehensive list of available exemptions.

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **17** OF **24**
Appendix E: Exemptions to Motorola Compliance Acceptance Criteria

The following provides Exemptions to the Compliance Criteria found in Appendix C. These exemptions are to be applied by a Supplier in the IPC1752A file submitted to Motorola and will be reviewed by the Motorola Environmental Data Management team prior to file acceptance. Please note for overlapping Substance categories, the suppliers must apply applicable exemptions in each exemption class. E.g. (RoHS, Motorola General and Motorola Surface.

Section RoHS: EU RoHS Exemptions

Controlled Substance Category	PPM	#	Expiration Date	Exemption Description
CADMIUM AND CADMIUM COMPOUNDS	100	8(b)		Cadmium and its compounds in electrical contacts
CADMIUM AND CADMIUM COMPOUNDS	100	13(b)		Cadmium (and lead) in filter glasses and glasses used for reflectance standards
CADMIUM AND CADMIUM COMPOUNDS	100	21		Lead and cadmium in printing inks for the application of enamels on borosilicate glass
CADMIUM AND CADMIUM COMPOUNDS	100	30		Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB and more
CADMIUM AND CADMIUM COMPOUNDS	100	38		Cadmium and Cadmium oxide in thick film pasts used on aluminum bonded beryllium oxide
CADMIUM AND CADMIUM COMPOUNDS	100	39	2014-07-01	Cadmium in colour-converting II-VI LEDs (less than 10 micrograms Cd per mm ² of light-emitting area) for use in solid state illumination or display system until 1 July 2014
HEXAVALENT CHROMIUM	1000	9		Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators
LEAD AND LEAD COMPOUNDS	1000	5(a)		Lead in glass of cathode ray tubes
LEAD AND LEAD COMPOUNDS	1000	5(b)		Lead in glass of fluorescent tubes not exceeding 0.2% by weight
LEAD AND LEAD COMPOUNDS	1000	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

Material or Methods Specification
TITLE: Controlled and Reportable Materials Disclosure
REVISION DATE: 01-Dec-2011
ISSUE: B
PAGE: 18 OF 24

LEAD AND LEAD COMPOUNDS	1000	7(c)-II		Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher
LEAD AND LEAD COMPOUNDS	1000	7(c)-III	2013-01-01	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC
LEAD AND LEAD COMPOUNDS	1000	7(b)		Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications
LEAD AND LEAD COMPOUNDS	1000	7(a)		Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead)
LEAD AND LEAD COMPOUNDS	1000	6(c)		Lead as an alloying element in copper containing up to 4% lead by weight
LEAD AND LEAD COMPOUNDS	1000	6(a)		Lead as an alloying element in steel containing up to 0.35% lead by weight
LEAD AND LEAD COMPOUNDS	1000	6(b)		Lead as an alloying element in aluminum containing up to 0.4% lead by weight
LEAD AND LEAD COMPOUNDS	1000	11(b)	2013-01-01	Lead used in other than C-press compliant pin connector systems
LEAD AND LEAD COMPOUNDS	1000	13(a)		Lead in white glasses used for optical applications
LEAD AND LEAD COMPOUNDS	1000	13(b)		Lead (and Cadmium) in filter glasses and glasses used for reflectance standards
LEAD AND LEAD COMPOUNDS	1000	15		Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
LEAD AND LEAD COMPOUNDS	1000	9(b)		Lead in lead/bronze bearing shells and bushes
LEAD AND LEAD COMPOUNDS	1000	16	2013-09-01	Lead used in linear incandescent lamps with silicate coated tubes
LEAD AND LEAD COMPOUNDS	1000	17		Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
LEAD AND LEAD COMPOUNDS	1000	18(b)		Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb)
LEAD AND LEAD COMPOUNDS	1000	21		Lead and cadmium in printing inks for the application of enamels on borosilicate glass
LEAD AND LEAD COMPOUNDS	1000	24		Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors

Material or Methods Specification
TITLE: Controlled and Reportable Materials Disclosure
REVISION DATE: 01-Dec-2011
ISSUE: B
PAGE: 19 OF 24

LEAD AND LEAD COMPOUNDS	1000	25	Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes
LEAD AND LEAD COMPOUNDS	1000	26	Lead oxide in the glass envelope of Black Light Blue (BLB) lamps
LEAD AND LEAD COMPOUNDS	1000	29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (*)
LEAD AND LEAD COMPOUNDS	1000	31	Lead in soldering materials in mercury free flat fluorescent lamps
LEAD AND LEAD COMPOUNDS	1000	32	Lead Oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes.
LEAD AND LEAD COMPOUNDS	1000	33	Lead in solders for the soldering of thin copper wires of 100 um diameter and less in power transformers
LEAD AND LEAD COMPOUNDS	1000	34	Lead in cermet based trimmer potentiometer elements
LEAD AND LEAD COMPOUNDS	1000	37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
MERCURY AND MERCURY COMPOUNDS	1000	1(a)	Mercury in compact fluorescent lamps < 30 W not exceeding 5 mg per lamp (in 2012: 3.5 mg, > 2012: 2.5 mg)
MERCURY AND MERCURY COMPOUNDS	1000	1(b)	Mercury in compact fluorescent lamps < 50 W and > 30 W not exceeding 5 mg per lamp (> 2011: 3.5 mg)
MERCURY AND MERCURY COMPOUNDS	1000	1(c)	Mercury in compact fluorescent lamps < 150 W and > 50 W not exceeding 5 mg per lamp
MERCURY AND MERCURY COMPOUNDS	1000	1(d)	Mercury in compact fluorescent lamps > 150 W not exceeding 15 mg per lamp
MERCURY AND MERCURY COMPOUNDS	1000	1(e)	Mercury in compact fluorescent lamps with circular or square structural shape and tube diameter < 17 mm (not exceeding 7 mg per lamp > 2011)
MERCURY AND MERCURY COMPOUNDS	1000	1(f)	Mercury in compact fluorescent lamps for special purposes not exceeding 5 mg per lamp
MERCURY AND MERCURY COMPOUNDS	1000	2(a)(1)	Mercury in straight fluorescent lamps with tri-band phosphor for general purposes with normal lifetime and a tube diameter < 9 mm (e.g. T2) not exceeding 5 mg per lamp (> 2011: 4 mg)

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **20** OF **24**

MERCURY AND MERCURY COMPOUNDS	1000	2(a)(2)		Mercury in straight fluorescent lamps with tri-band phosphor for general purposes with normal lifetime and a tube diameter < 17 mm and > 9 mm (e.g. T5) not exceeding 5 mg per lamp (> 2011: 3 mg)
MERCURY AND MERCURY COMPOUNDS	1000	2(a)(3)		Mercury in straight fluorescent lamps with tri-band phosphor for general purposes with normal lifetime and a tube diameter < 28 mm and > 17 mm (e.g. T8) not exceeding 5 mg per lamp (> 2011: 3.5 mg)
MERCURY AND MERCURY COMPOUNDS	1000	2(a)(4)		Mercury in straight fluorescent lamps with tri-band phosphor for general purposes with normal lifetime and a tube diameter > 28 mm (e.g. T12) not exceeding 5 mg per lamp (> 2012: 3.5 mg)
MERCURY AND MERCURY COMPOUNDS	1000	2(a)(5)		Mercury in straight fluorescent lamps with tri-band phosphor for general purposes with long lifetime (> 25000h) not exceeding 8 mg per lamp (> 2011: 5 mg)
MERCURY AND MERCURY COMPOUNDS	1000	2(b)(2)	2016-04-13	Mercury in non-linear halophosphate lamps (all diameters) not exceeding 15 mg in halophosphate lamps
MERCURY AND MERCURY COMPOUNDS	1000	2(b)(3)		Mercury in non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9) (> 2011: not exceeding 15 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	2(b)(4)		Mercury in lamps for other general lighting and special purposes (e.g. induction lamps) (> 2011: not exceeding 15 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	3(a)		Mercury in short length (< 500 mm) cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes (> 2011: not exceeding 3.5 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	3(b)		Mercury in medium length (greater than 500 mm and < 1,500 mm) cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes (> 2011: not exceeding 5 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	3(c)		Mercury in long length (> 1,500 mm) cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes (> 2011: not exceeding 13 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(a)		Mercury in other low pressure discharge lamps (> 2011: not exceeding 15 mg per lamp)

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **21** OF **24**

MERCURY AND MERCURY COMPOUNDS	1000	4(b)-I		Mercury in high Pressure Sodium (vapour) lamps for general lighting purposes < 155 W with improved colour rendering index Ra > 60 (> 2011: not exceeding 30 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(b)-II		Mercury in high Pressure Sodium (vapour) lamps for general lighting purposes < 405 W and > 155 W with improved colour rendering index Ra > 60 (> 2011: not exceeding 40 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(b)-III		Mercury in high Pressure Sodium (vapour) lamps for general lighting purposes > 405 W with improved colour rendering index Ra > 60 (> 2011: not exceeding 40 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(c)-I		Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes < 155W (> 2011: not exceeding 25 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(c)-II		Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes < 405 W and > 155 W (> 2011: not exceeding 30 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(c)-III		Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes > 405 W (> 2011: not exceeding 40 mg per lamp)
MERCURY AND MERCURY COMPOUNDS	1000	4(d)	2015-04-13	Mercury in High Pressure Mercury (vapour) lamps (HPMV)
MERCURY AND MERCURY COMPOUNDS	1000	4(e)		Mercury in metal halide lamps (MH)
MERCURY AND MERCURY COMPOUNDS	1000	4(f)		Mercury in other discharge lamps not specifically mentioned in this list

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **22** OF **24**
Section I, II, and V: Global Compliance Acceptance General Exemptions

Controlled Substance Category	PPM	#	Expiration Date	Exemption Description
ARSENIC AND ARSENIC COMPOUNDS	0	502		Arsenic NOT in wood products as a preservative per 2003/2/EC
AZO DYES	30	517		Usage of azodyes is NOT in leather and/or textiles per EU Directive 2002/61/EC
CADMIUM AND CADMIUM COMPOUNDS	20	500		Cadmium not in batteries or packaging covered by EU RoHS
COBALT DICHLORIDE	100	537		Part contains Cobalt Dichloride but is not in the form of a substance or preparation (eg silica gel)
DIORGANOTIN AND DIORGANOTIN COMPOUNDS	1000	536	2015-01-01	Paints and Coatings containing Dibutyl Tin compounds as catalysts
HEXAVALENT CHROMIUM	3	509		In packaging, the sum of Cd, Hg, Pb and CrVI does not exceed 100 ppm based on total package mass per 94/62/EC
HEXAVALENT CHROMIUM	3	519		Cr(VI) and Cr(VI) Compound not in leather and textiles per German "Food and Commodities Law"; up to 1000 ppm in EEE allowed per EU ROHS 2002/95/EC; heavy metals in packaging restricted under 94/62/EC
LEAD AND LEAD COMPOUNDS	70	510		In packaging, the sum of Cd, Hg, Pb and CrVI does not exceed 100 ppm based on total package mass per 94/62/EC
LEAD AND LEAD COMPOUNDS	70	513		Lead in Cable Jackets only, up to 300 ppm per California Prop 65
LEAD AND LEAD COMPOUNDS	70	518		Lead NOT in cable jackets or packaging; covered by RoHS
MERCURY AND MERCURY COMPOUNDS	5	511		In packaging, the sum of Cd, Hg, Pb and CrVI does not exceed 100 ppm based on total package mass per 94/62/EC
MERCURY AND MERCURY COMPOUNDS	5	515		Mercury in batteries per EU Directive 98/101/EC not to exceed 5 ppm of total battery cell weight
MERCURY AND MERCURY COMPOUNDS	5	516		Mercury in batteries per EU Directive 98/101/EC not to exceed 2% (20,000 ppm) for button cells
MERCURY AND MERCURY COMPOUNDS	5	520		Mercury NOT in batteries covered by EU ROHS 2002/95/EC

Material or Methods Specification

 TITLE: **Controlled and Reportable Materials Disclosure**

 REVISION DATE: **01-Dec-2011**

 ISSUE: **B**

 PAGE: **23** OF **24**
Section Surface: Motorola Exemptions for Parts used on the Surface of a Product

Controlled Substance Category	PPM	#	Expiration Date	Exemption Description
ANTIMONY/ANTIMONY COMPOUNDS	0	528		Part contains Antimony but will not have prolonged contact with skin (i.e. surface mount parts)
ANTIMONY/ANTIMONY COMPOUNDS	0	529		Part contains Antimony, manufacturer certifies it meets ASTM F963-03
BARIUM AND BARIUM COMPOUNDS	0	524		Part contains Barium but will not have prolonged contact with skin (i.e. surface mount parts)
BARIUM AND BARIUM COMPOUNDS	0	525		Part contains Barium but the manufacturer certifies it meets ASTM F963-03
CHROMIUM AND CHROMIUM COMPOUNDS	0	522		Part contains Chromium but will not have prolonged contact with skin (i.e. surface mount parts)
CHROMIUM AND CHROMIUM COMPOUNDS	0	523		Part contains Chromium but the manufacturer certifies it meets ASTM F963-03 Note: All Cr Plating is compliant with F963-03
COBALT AND COBALT COMPOUNDS	0	532		Part contains Cobalt but will not have prolonged contact with skin (i.e. surface mount parts)
COBALT AND COBALT COMPOUNDS	0	533		Part contains Cobalt but the manufacturer certifies it meets ASTM F963-03
LATEX	0	534		Part contains Latex but will not have prolonged contact with skin (i.e. surface mount parts)
LEAD AND LEAD COMPOUNDS	0	538		Part contains Lead but will not have prolonged contact with skin (i.e. surface mount parts)
LEAD AND LEAD COMPOUNDS	0	539		Part contains Lead but the manufacturer certifies it meets ASTM F963-03
NICKEL AND NICKEL COMPOUNDS	0	501		Part contains Nickel, but will not have prolonged contact with skin
NICKEL AND NICKEL COMPOUNDS	0	506		Part contains Nickel and could have prolonged contact with skin but the manufacturer certifies it meets EN1811, per 76/769/EEC and 94/27/EC Note: All Ni used in stainless steel and amorphous metals is compliant with EN1811 unless sulfur content of metal is >.03%.



Material or Methods Specification

NO. **1202897W18-MD-Home**
Global Common Specification

TITLE: **Controlled and Reportable Materials Disclosure**

REVISION DATE: **01-Dec-2011**

ISSUE: **B**

PAGE: **24** OF **24**

SELENIUM AND SELENIUM COMPOUNDS	0	526		Part contains Selenium but will not have prolonged contact with skin (i.e. surface mount parts)
SELENIUM AND SELENIUM COMPOUNDS	0	527		Part contains Selenium manufacturer certifies it meets ASTM F963-03