

Sony Ericsson – Managing Substances in products

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Corporate Sustainability Office



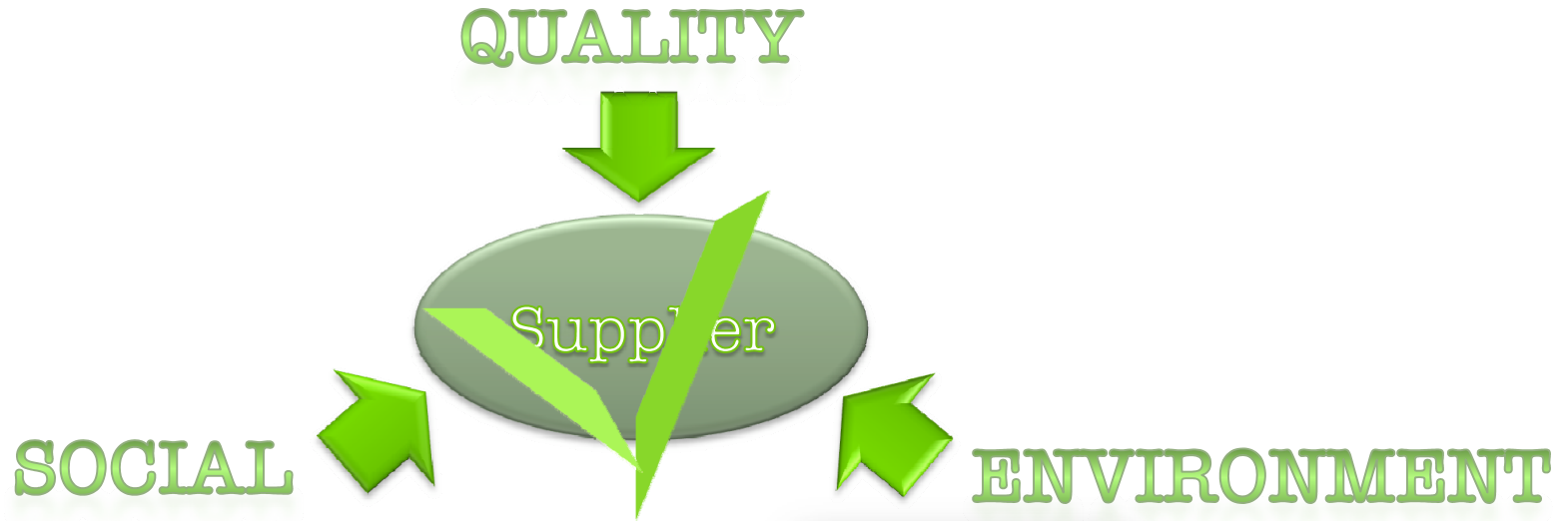
Environmental requirements?

Why have them?

- Legal compliance
 - Substances,
 - Waste,
 - Energy
- Customer requirements
- Distinguishing brands
 - Competitive advantage
 - Be ahead of the legislator
- Make a difference
 - Change to the better



Basic requirements for supplier approval



Sony Ericsson

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Project:
PROJECT: TCMR/LUNATION

Author:
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Supplier Social Responsibility Code

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Supplier Environmental Requirements

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The Sony Ericsson list of banned substances (in products)

Group of substances	Banned substance	Y/N	Comments of ban (only if the substance is prohibited in products, otherwise in general)	Max. limit	Maximum concentration
Paints and inks components	Chlorinated hydrocarbons	Yes	Substance is prohibited in products, otherwise in general	None	None
	Organotin compounds	Yes	Consumer products	0.1 ppm	0.1 ppm
	Lead and its compounds	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
	Mercury and its compounds	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
Metals and their compounds	Mercury and its compounds	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
	Lead and its compounds	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
	Chromium VI compounds	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
	Polycyclic aromatic hydrocarbons (PAHs)	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
Integrated Base Materials	Polycyclic aromatic hydrocarbons (PAHs)	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
	Polycyclic aromatic hydrocarbons (PAHs)	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
Plastics	Polycyclic aromatic hydrocarbons (PAHs)	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm
	Polycyclic aromatic hydrocarbons (PAHs)	Yes	Substance is prohibited in products, otherwise in general	100 ppm	100 ppm

* For more details on Maximum Concentration Values, please refer to section 4 in this document.

Sony Ericsson list of banned & restricted substances

Substances Banned and Regulated by Legislations

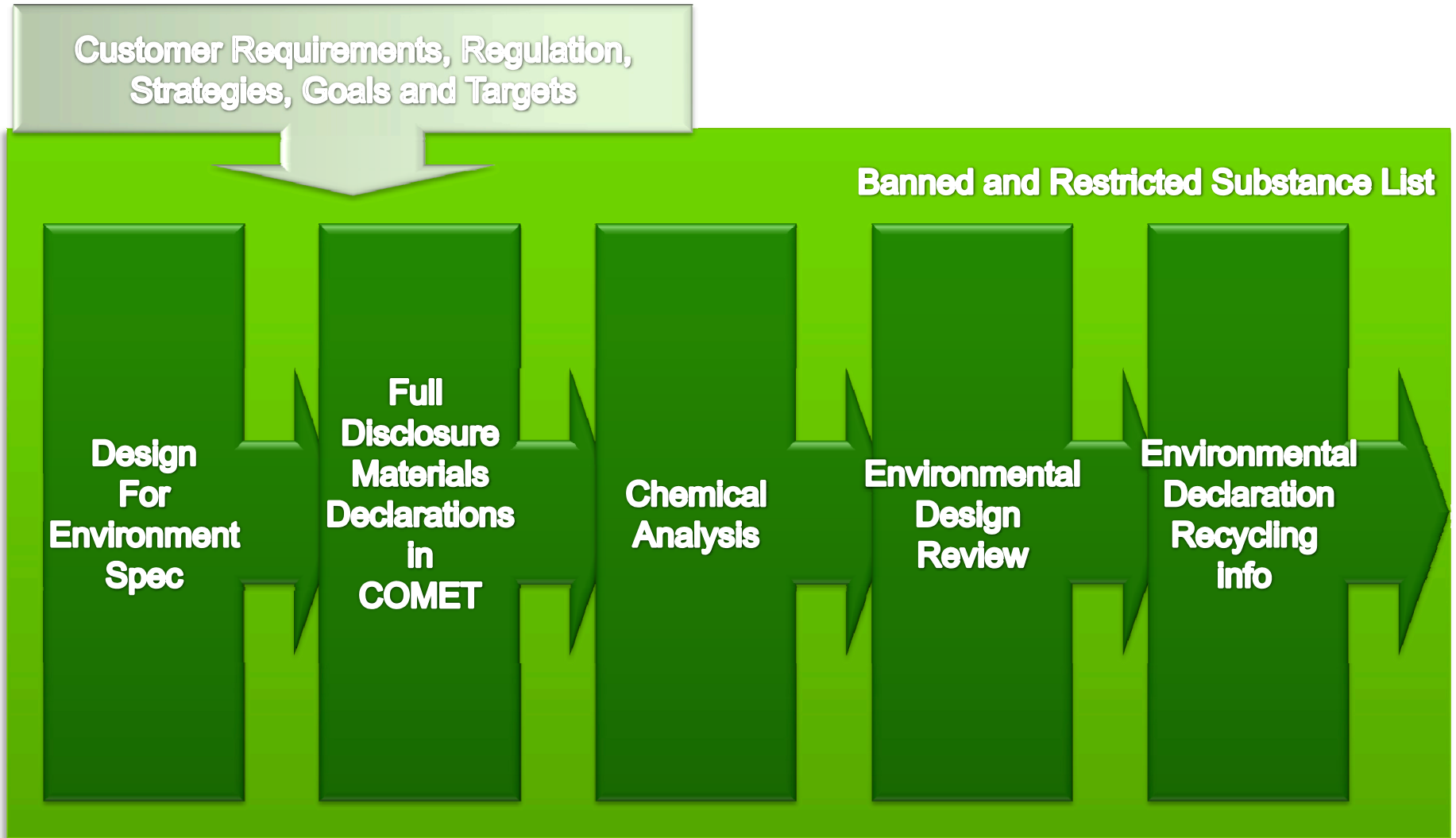
RoHS Directive (China, EU, etc), REACH (SVHC), EU Battery Dir., Stockholm Convention, 76/769/EEC, Toys Directive, Proposition 65 (Cal.), Japan Substance regulations, etc...

Substances Banned by Sony Ericsson

- All halogenated organic compounds (incl. PVC, flame retardants etc.)
- Antimony and antimony compounds
- Beryllium and beryllium compounds
- Allergenic compounds in surface applications (e.g. nickel and latex)
- Bisphenol-A
- Tantalum originating from Central Africa

The list can be downloaded from Sony Ericsson's web;
<http://www.sonyericsson.com/cws/download/1/573/756/1226332896/SEListsofBannedandRestricted.pdf>

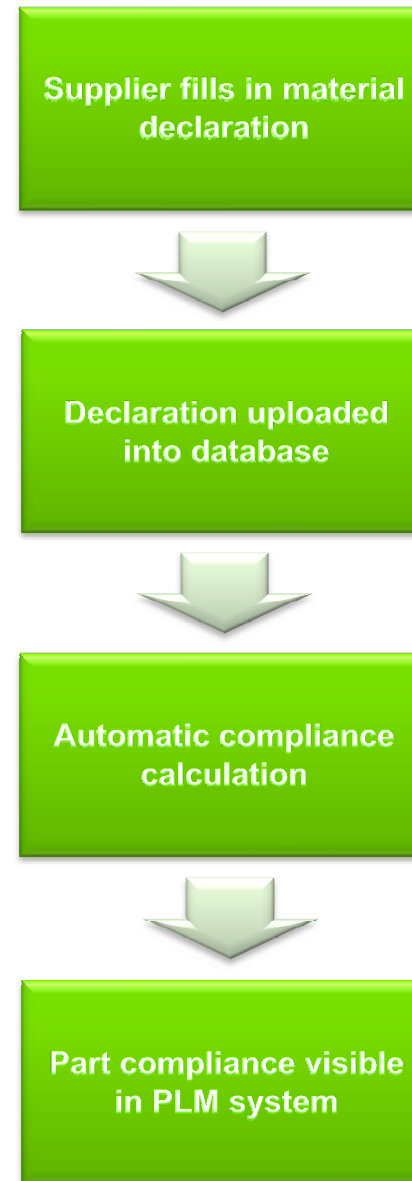
Compliance verification process



Material declarations

Conformity through knowledge

- Material declaration with full disclosure of substances and materials
- Industry standard template (IPC1752)
- Material declarations in Sony Ericsson database
- Automatic compliance calculations
- Aggregated compliance for entire product



Teamcenter Compliance - Search for External Part - Microsoft Internet Explorer provided by Sony Ericsson

http://comet.sonyericsson.net/sprtquery.emars

File Edit View Favorites Tools Help

Teamcenter Compliance - Search for External Part

Search for External Part

Home
External Parts
Documents
Part Types
BOMs
Suppliers

Use * for wildcard search

Search Refresh

Template Search: ---

Commodity Code

Supplier Name

External Part Name

Received From

Received To

Part ID

Containing Substance

Minimum Concentration

Exemption

Doc Option

Part Lifecycle State

DUNS Number

External Part Description

Max to Retrieve

Part Description

CAS Number

Material Name

Document Type
Verification Analysis Report
IPC-1752-1_CLASS1

Compliance Status
CONDITIONAL FAIL
FAIL
NO DATA
PASS
PASS WITH EXEMPTIONS

External Part LifeCycle State
NO DATA
APPROVED
OBSOLETE
PRELIMINARY
RELEASED

Compliance Specification
JIG A
ROHS CONSUMER
SEMC BANNED
SEMC RESTRICTED

Disclosure
BANNED AND REPORTABLE SUBSTANCES
BANNED SUBSTANCES ONLY
PRE-QUALIFICATION
TOTAL DISCLOSURE

Containing Substance Category

Specification	Substance Category
JIG A	ASBESTOS, ASBESTOS COMPOUNDS
JIG A	AZO DYES
JIG A	CADMIUM AND CADMIUM COMPOUNDS
JIG A	HEXAVALENT CHROMIUM
JIG A	LEAD AND LEAD COMPOUNDS
JIG A	LEAD AND LEAD COMPOUNDS - PVC CABLES AND WIRES
JIG A	MERCURY AND MERCURY COMPOUNDS
JIG A	OZONE DEPLETING SUBSTANCES - CLASS 1 (CFCS, HBFCs, ETC)

Done

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http://comet.sonyericsson.net/sprtquery.emars?disp=1256052690554

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home search import admin

TEAMCENTER

Search for External Part

Home
External Parts
Documents
Part Types
BOMS
Suppliers

DISCLOSURE LEVEL
TOTAL
BANNED AND REPORTABLE
BANNED ONLY
PREQUALIFICATION
COMPLIANCE STATUS
PASS
PASS WITH EXEMPTIONS
CONDITIONAL FAIL
PARTIAL FAIL
FAIL
NO DATA
MATERIAL CONTENT
PART
MATERIAL
SUBSTANCE
Use * for wildcard search

Message(s)
• The database may contain more records that match the search criteria.

External Part Actions: Search Actions:

Row	External Part	Part ID [EP State]	Commodity Code	External Part Description	Supplier	Reported	Disclosure	ROHS	JIG A	SEMC B	SEMC R
<input type="checkbox"/>	1	BLM03AG241SN1D	1000-2693.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	2	BLM03AG700SN1	1000-0128.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	3	BLM03BB470SN1D	1203-0723.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	4	BLM15AG102SN1D	1000-2809.1 [RELEASED]; 1201-5128.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	5	BLM15BB760SN1	1000-0120.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	6	BLM15EG121SN1	1000-2617.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	7	BLM15HD182SN1J	1200-0317.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	8	BLM15HO102SN1D	1000-2618.1 [RELEASED]	EL3		08/06/2007 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	9	CEQ21836MDCB000RB4	1200-0165.1 [RELEASED]	EL5		01/22/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	10	CES201G88DCB000RB4	1200-0163.1 [RELEASED]	EL5		01/22/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	11	CES201G96DCB000RB4	1000-7876.1 [RELEASED]	EL5		01/22/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	12	GRM0335C1E100JD01D	1220-1508.1 [RELEASED]; 1000-0055.1 [RELEASED]	EL3		10/15/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	13	GRM0335C1E100JD01J	1220-5139.1 [PRELIMINARY]	EL3		10/15/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	14	GRM0335C1E101J	1207-3488.1 [PRELIMINARY]	EL3		10/15/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	15	GRM0335C1E101JD01D	1200-4293.1 [RELEASED]; 1000-8082.1 [RELEASED]	EL3		10/15/2008 00:00:00		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Done

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Teamcenter Compliance - External Part Information - Microsoft Internet Explorer provided by Sony Ericsson

http://comet.sonyericsson.net/sprtinfo.emars?emarsaction=infoScreen&bid=88667&queryStamp=1245847757959&class=com.synapsistech.emars.web.display.SupplierPartDO&v

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Teamcenter Compliance - External Part Information

Suppliers

DISCLOSURE LEVEL

- TOTAL
- BANNED AND REPORTABLE
- BANNED ONLY
- PREQUALIFICATION
- COMPLIANCE STATUS
- PASS
- PASS WITH EXEMPTIONS
- CONDITIONAL FAIL
- PARTIAL FAIL
- FAIL
- NO DATA
- MATERIAL CONTENT
- PART
- MATERIAL
- SUBSTANCE

Compliance Status

Compliance Status:

Specification: ROHS (CONSUMER) JIG (A) SEMC (BANNED) SEMC (RESTRICTED)

Revision: C 101 G G

Disclosure Level:

Exemption Earliest Expiry Date:

Qualification Owner: 23054855 23054855 23054855 23054855

Material Content | Part Types | Compliance History | Material Declaration History | Roadmap | Doc | Comments

Part Number	Part Mass	UOM	Tolerance
BBY58-02W E6327	0.00181	G	0.11049724

Subpart Name	Material	Supplier	Substance	Class/Category	CAS Number	Mass	%
BBY 58-02W E6327	CHIP	N/A		IPC DUMMY MATERIAL CLASSIFICATION		0.00004000	2.20994475
			<input type="radio"/> SILICON	OTHER	7440-21-3	0.00004000	100
	DIE ATTACH	N/A		IPC DUMMY MATERIAL CLASSIFICATION		0.00000200	0.11049724
			<input type="radio"/> ALUMINIUM	OTHER	7429-90-5	5.0E-7	25
			<input type="radio"/> GOLD	OTHER	7440-57-5	5.0E-7	25
			<input type="radio"/> TIN	OTHER	7440-31-5	5.0E-7	25
			<input type="radio"/> TITANATE	OTHER	7440-32-6	5.0E-7	25
	DIEPAD PLATING	N/A		IPC DUMMY MATERIAL CLASSIFICATION		0.00005000	2.76243094
			<input type="radio"/> SILVER	OTHER	7440-22-4	0.00005000	100
	ENCAPSULATION;						

Done

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Know what you have in your products - not what you don't have!