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Related Documents			

Related Documents

Document Number	Title	SharePoint URL
<u>SQ02-0020[44]</u>	Supplier Quality Manual	Click here to open document
<u>SQ03-0138[56]</u>	Supplier Qualification and Monitoring	Click here to open document
<u>SQ03-0185[12]</u>	Material and Part Compliance	Click here to open document
<u>SQ03-0337[27]</u>	Supplier Sustainability Specification	Click here to open document
<u>SQ04-0073[13]</u>	Skyworks Definition of Pb-Free	Click here to open document
<u>SQ04-0074[12]</u>	Skyworks Definition of Green	Click here to open document
<u>SQ03-0337[28]</u>	Supplier Sustainability Specification	Click here to open document

Approval History

Step	Approved By	Date Approved
Approval Step 1	Ju Lian Toe	21-Feb-2024 3:51 AM
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Revision History

Revision Number	Changes	Effective Date
29	N/A	29-Jan-2024

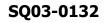
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Green Procurement



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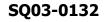
Revision History

Rev	Name	Change	Date
	Refer to int	าร	
29	Troy Schulze	5.8.1 – Laboratory Analysis – Updated to include fluorine analysis for PFAS detection (alignment to SQ03-0188)	6/1/2023
30	Troy Schulze	Title change	2/16/2024
		Deleted JIG-201 Packaging List and Substance Restrictions in Packaging section	
		Appendix I – Added link to IEC 62474 homepage with instructions to download the latest DLS and RSL.	
		Added Appendix II – Reportable Substances and Future Restrictions (changed from previous Sky works – Supplemental Substance Restrictions list)	>
		Deleted obsolete links and references throughout	
		General document clean-up throughout	

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1 Purpose and Scope

1.1 Purpose

This specification provides requirements to suppliers and procurement teams as well as design teams regarding Skyworks Solutions' standard of **Substance Restrictions in Products** applicable to products, components, and materials supplied to Skyworks Solutions. This specification has been developed to fulfill the following requirements:

- To ensure suppliers, supplied materials, and Skyworks finished goods comply with applicable legal, regulatory, and end-customer requirements
- To prevent specific substances from being used in Skyworks' products
- To provide Skyworks the necessary information to fully identify and declare the materials make-up of all Skyworks finished goods
- To provide guidance to suppliers regarding substances for future phase-out
- To reduce adverse impacts to the environment from the materials make-up of Skyworks finished goods

1.2 Scope

The scope of this document is applicable to Product, Component, and Material Suppliers whose supplied materials to Skyworks are for <u>incorporation into Skyworks products</u>. This includes:

- Semi or Fully assembled parts (e.g. module, functional prits, board assemblies, and other assembled parts and accessories)
- Parts (e.g. electrical parts, mechanical parts, semiconductor devices, PWB-s)
- Materials (e.g. wire, solder paste, epoxy, etc...)
 - Packaging that does not remain in the final product is not covered by this specification (e.g. trays, reels, sticks, bags, cushions, staples, sneets, wraps, tapes, labels, corrugated cardboard, wooden frames, pallet, vinyl ties, and inks or paints for printing)

For some specific applications (e.g. aerospace, mutary applications), portions of this document may be exempted at the discretion of Skyworks.

2 Acronyms / Terminology and Description / Definition

Green	Refer to Skyworks controlled definition in <u>SQ04-0074 - Skyworks Definition of</u> <u>Green</u> .
Homogeneous material	A material that cannot be mechanically disjointed into different materials. The term "homogeneous" means "of uniform composition throughout." Examples of "homogene- ous materials" are individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins, and coatings. The term "mechanically disjointed" means that the materials can, in principle, be separated by mechanical actions such as: unscrewing, cutting, crush- ing, grinding, and abrasive processes.
Intentionally added	Deliberate use in the formulation of a product or subpart where its continued presence is desired to provide a specific characteristic, appearance or quality. If listed materials or substances are contained in products or subparts purchased by supplier and are incorporated, such materials/substances must be disclosed.

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Lead Free	Refer to Skyworks controlled definition in <u>SQ04-0073 - Skyworks Definition of Pb-</u> <u>Free</u> .
Packaging	Materials used to prepare a product for shipment including Reels, bags, trays and inner and outer boxes. Packaging that does not remain in the final product are not covered by this specification.
Substances	Substances are chemical elements and their compounds. CAS numbers are provided for these substances where known.
Threshold level	Concentration level, which defines the limit, above which substance bans or restrictions apply (refer to Substance Restriction Lists).

3 Associated Documents

3.1 For Suppliers

Access to key information applicable to suppliers can be found on external website on the <u>Suppliers</u> page. The documents listed below are incorporated into the contractual agreement between the supplier and Skyworks (either via contracts or a Purchase Order agreement.

- SQ02-0020 Supplier Quality Manual
- SQ03-0337 <u>Supplier Sustainability Specification</u>
- SQ03-0132 <u>Green Procurement</u> (this document)

3.2 Internal

Listed here are Skyworks documents detailing internal requirements associated with this document. These documents are not available to the supplier and are referenced here only for Skyworks' reference.

SQ03-0138 – Supplier Qualification and Monitoring SQ03-0185 - Material and Part Compliance

3.3 External References

- IEC 62474 Material Declaration for Products of and for the Electrotechnical Industry
- IPC/DEDEC J-STD-609 "Marking, Symbols, and Labels of Leaded and Lead-Free Terminal Finished Materials Used in Electronic Assembly."
- DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)
- Directive (EU) 2015/863 (a.k.a. RoHS 3)
- Directive 2002/96/EC of the European Parliament and the Council of 27 January 2003 titled The Waste Electrical and Electronic Equipment (WEEE).
- 2006/122/EC (Amendment for the 30th time council Directive EU 76/769/EEC)
- Directive EC 1907/2006 Registration, Evaluation, Authorization and Restriction of CHemical Substances (REACH)





4 Supplier Responsibilities

Overall Supplier requirements pertaining to Sustainability are found in the <u>Supplier Sustainability Specification (SQ03-0337</u>). This document (Green Procurement) is referenced therein. <u>In-scope</u> suppliers shall adhere to the materials restrictions and other requirements as detailed in this document and shall provide Skyworks with completed materials information and supporting <u>laboratory analysis</u> via the <u>Green Supplier Survey (GSS</u>) process on request.

5 Requirements

5.1 Management System

Skyworks requires its suppliers maintain a management system to manage the requirements of this specification. Suppliers shall have established their own Substance Restriction lists which meet, at a minimum, the substance requirements within this specification. Upon request by Skyworks, Suppliers shall provide documented proof showing the source of all materials content data provided to Skyworks.

5.2 Substance Restrictions in Products

Skyworks bases its materials restrictions in products on the International Electronical Commission's (IEC) <u>IEC 62474 - Material Declaration for Products of and for the Electrotechnical Industry</u>. As stated by the IEC, "The electrical and electronics industry and its supply chain use material declarations to track and declare specific information about the material composition of its products. To harmonize requirements across the supply chain and to improve economic efficiencies, IEC 62474 provides an International Standard for the exchange of material composition data and provide requirements for material declarations. This International Standard benefits the electrotechnical industry by establishing requirements for reporting of substances and materials, standardizing protocols, and facilitating transfer and processing of data." The IEC's **Declarable Substance List (DSL)** has been incorporated into this specification. Instructions to download the latest version of the DSL can be found in <u>Appendix I</u>. Also download the *Reference Substance List (RSL)* which provides additional details/information on *DSL* substances. *Reportable Substances and Future Restrictions* can be found in <u>Appendix II</u>.

The *DSL* identifies substances according to three criteria; 'Criteria 1,' which identifies those substances currently regulated; 'Criteria 2,' which identifies those substances with potential to be regulated, prompting their use to be assessed; and 'Criteria 3,' which identifies those substances not currently regulated, but where market-driven reporting is required for electrotechnical products to enable implication assessments against industry standards and agreements. *ALL substances on the DSL (Criteria 1, 2, and 3) are prohibited above referenced thresholds in all <u>in-scope</u> materials provided to Skyworks.*

5.2.1 Exceptions to IEC 62474 DSL (Appendix I) Restrictions

- Per- and Polyfluoroalcyl Substances (PFAS) Follow information and restrictions referenced in Appendix II.
- REACH Candidate List of SVHC's Follow information and restrictions referenced in Appendix II.

5.3 Regulatory Exemptions

All valid exemptions approved and referenced in the EU RoHS2 standard (Directive 2011/65/EU) as well as exemptions as referenced in the EU PFOS standard (2006/122/EC) may be utilized.

5.4 Conflict Minerals

Refer to <u>SQ03-0337 – Skyworks Supplier Sustainability Specification</u>, for special requirements applicable to suppliers of metals identified as "Conflict Minerals."

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5.5 Labeling Requirements

Refer to the marking and labeling requirements as specified in IPC/DEDEC J-STD-609 (latest revision) – "Marking, Symbols, and Labels of Leaded and Lead-Free Terminal Finished Materials Used in Electronic Assembly."

Where applicable, also refer to the requirements as detailed in DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast) – Also known as RoHS2.

5.6 Green Supplier Survey

It is the responsibility of all <u>in-scope</u> suppliers to comply with the materials restriction, reporting and labeling requirements contained in this procedure for all parts and substances and raw materials sold to Skyworks. Material declaration, reporting, and certification to the requirements of this specification shall be completed according to Skyworks Green Supplier Survey process on request from Skyworks.

Upon receiving a survey request from Skyworks, suppliers are responsible for completing the survey according to instructions provided.

In-scope suppliers are prohibited from supplying materials to Skyworks that are not in full compliance to this specification and must disclose to Skyworks any potential non-conformance via Green Supplier Survey.

5.6.1 Laboratory Analysis

Upon request from Skyworks, Supplier shall provide laboratory analysis (from a third-party analytical company such as SGS) to verify the information provided in the Green Supplier Survey. The required analytical is summarized in the table below. Requests for laboratory analysis will typically be made along with the Green Supplier Survey.

Chemical or Chemical Group	Test Results Required For:	Test Method
Arsenic (As)	Glass	Total acid digestion followed by ICP-MS
Beryllium	Meial alloys that contain copper and berylia ceramics. For metals and alloys that contain copper and solder, it is acceptable to submit a Certified Mill Test Report (also known as a Mill Test Certificate) in lieu of a test report as defined later in this section, if it provides full composition information	US EPA 3050B US EPA 3052 ICP-AES in addition to ICP-MS ICP-OES in addition to ICP-MS
Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Cadmium (Cd) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP) Hexavalent Chromium (Cr6+) Lead (Pb) Mercury (Hg) Polybrominated biphenyl (PBB) Polybrominated diphenyl ether (PBDE)	All materials. Test reports are not required for PBB, PBDE, DEHP, BBP, DBP, and DiBP in metals, glass, or ceramic	Methods described or referenced in IEC 62321 ISO17075-2 for Hexavalent Chromium (Cr6+) in leather EN 14372 followed by GC-MS for Phthalates



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Bromine (Br) Chlorine (Cl)	All materials except metals and ce- ramics	EN 14582 US EPA SW-846 5050/9056
Fluorine (F)		ASTM D 7359-14a, DIN 53474:2017-12, or IEC62321-3-2, followed by IC testing
PFOS PFOA	Inks, leather, coated textiles, lubri- cants, coatings (e.g., primers, var- nishes, paints, CVDs, photoresist, solder resist; see Definitions section), fluoropolymer materials	DIN CEN/TS 15968 LC-MS-MS methods that can achieve an MDL of 25 ppb
Any other substance listed in Skyworks Green Procurement Supplier Specification – SQ03-0132	Any material if requested by Sky- works	As required

All test reports must meet the following requirements:

- Test reports may be no more than two years old.
- Materials tested must be homogeneous. Test reports that are not at a homogeneous level (e.g. modules made up of several homogeneous materials tested after grinking the entire subassembly) are not acceptable.
- A nationally or internationally certified laboratory must issue the test report. Supplier owned laboratories are acceptable if they are independently certified. One example of international certification is ISO 17025.
- Test reports based on X-ray Fluorescence Spectroscopy (XRF) are not acceptable forms of compliance • documentation.
- An analytical process flow chart is required for each is analytical report. All compliance documentation (e.g. test reports and declarations) must be retained by the supplier for a minimum of ten years as part of the supplier's records-keeping process. Digital formats are acceptable unless otherwise noted.

5.7 Product Change Notice (PCN)

Any change to the material content of an approved material must be reported in written form to Skyworks Solutions. Refer to the Supplier Process Change Notice (PCN) requirements as referenced in the Supplier Quality Manual (SQ02-0020). Upon approval of a supplier PCN that changes the materials content of a part or supplied material, the supplier will be issued a new Green Supplier Survey which must be completed and returned to Skyworks promptly upon receipt.

Quality Records 6

DESCRIPTION	COLLECTION	STORAGE/FILING	MINIMUM RETENTION PERIOD	DISPOSITION
Green Supplier Survey	Database	Electronic - Suppli- erSoft	10 years	Archive



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Appendix I – IEC 62747 Declarable Substance List and Reference Substance List

Follow these instructions to access and download the latest versions of the DSL and RSL.

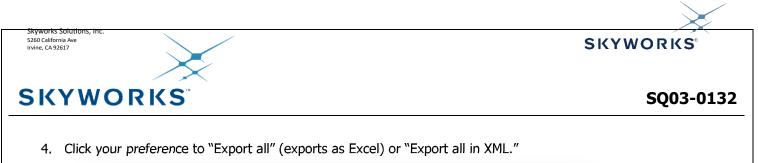
- 1. Go to the <u>IEC 62474 Homepage</u>
- 2. Click the "Enter" button at the upper right

	IEC 62474 - M	I Electrotechnical Commission >>>>> ENTER Material Declaration for Products of and for the Electrotechnical Industry	
Welcome	to the IEC 62474	4 database on material declaration	
compositio Internation Standard b	on of its products. nal Standard for th penefits the electro	ics industry and its supply chain use material declarations to track and declare specific information about the material . To harmonize requirements across the supply chain and to improve economic efficiencies, IEC 62474 provides an the exchange of material composition data and provide requirements for material declarations. This International trotechnical industry by establishing requirements for reporting of substances and materials, standardizing protocols, 1 processing of data.	
This datab	ase (IEC 62474 E	DB) specifies to the electrical and electronics industry and its suppliers:	
1. what sul	bstances, substar	ance groups and material classes that need to be included in material declarations; and	
		specifications on the data format for the exchange of material declaration deta	
	lect the 'ENTER' b nts of IEC 62474.	button on the top right corner of the window to enter the database. This ratebase is to be used according to the t.	
		$\langle \langle (\rangle \rangle \rangle$	
DSL.	International	vish to download. The BSL provides additional information on substances	
Home		DSL updated on January 25, 2024, SL/RSL: D28.00; XML schema: X8.10; MCL: M3.00. Please See News for additional	
Introduction News		Introduction	
Update proces	ss ubstance List (DSL)	IEC 62474 consists of two parts: the main document part of the standard that describes the material declaration requirements (may be purchased from IEC and reseliers) and this database which specifies information that may need to be updated on timely basis. Please see the international IEC 62474 Standard for additional details about the standard and how this database is maintained.	
Reference Sul	bstance List (RSL)	The six types of information provided in IEC 62474 DB are represented by the six hyperlinked text fields in the left side margin:	
Material Class	List (MCL)	Declarable substance groups and declarable substances (DSL) Reference Substances (RSL)	
	its	Material classes (MCL) Exemption Lists	
Exemption Lis	here a second	Supplementary Lists and Information XML schema for materials declaration	
Exemption Lis Supplementar Information	ry Lists and		
Supplementar		Declarable substance groups and declarable substances The database of declarable substance groups and declarable substances may be interactively queried (see instructions below) or the	
Supplementar Information XML schema f	for materials	Declarable substance groups and declarable substances The database of declarable substance groups and declarable substances may be interactively queried (see instructions below) or the complete list may be downloaded as an Excel spreadsheet.	
Supplementar Information XML schema f declaration	for materials	The database of declarable substance groups and declarable substances may be interactively queried (see instructions below) or the	
Supplementar Information XML schema t declaration Update sched	for materials	The database of declarable substance groups and declarable substances may be interactively queried (see instructions below) or the complete list may be downloaded as an Excel spreadsheet. Click on this category and you will see a pull-down menu titled "Select" that includes all substance groups and substances contained	
Supplementar Information XIML schema f declaration Update sched	for materials	The database of declarable substance groups and declarable substances may be interactively queried (see instructions below) or the complete list may be downloaded as an Excel spreadsheet. Click on this category and you will see a pull-down menu titled "Select" that includes all substance groups and substances contained	
Supplementar Information XIML schema f declaration Update sched	for materials	The database of declarable substance groups and declarable substances may be interactively queried (see instructions below) or the complete list may be downloaded as an Excel spreadsheet. Click on this category and you will see a pull-down menu titled "Select" that includes all substance groups and substances contained	

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information	Material Declaration for Products of and for the Electrotechnical Industry DSL updated on January 25, 2024. DSL/RSL: D28.00; XML schema: X8.10; MCL: M3.00.
Home Introduction	Declarable substances Export all Export all in XML
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Reference Substance List (RSL)	
Material Class List (MCL)	
Exemption Lists	
Supplementary Lists and Information	
XML schema for materials declaration	53
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Appendix II – Reportable Substances and Future Restrictions

Chemical or Chemical Group	Substance Identifier or CAS No.	Reporting Threshold	Examples	Phase-Out & Future Restrictions	References
Per- and Polyfluoroalkyl Substances (PFAS)	See Skyworks PFAS Definitions and Substance List - SQ03-0701	25 ppb for non-polymeric PFAS 50 ppm for polymeric PFAS	Lubricants, corrosion resistance coatings, top coats, water repellency coatings, plastics	Begin phase-out immediately. Restriction by October 2025 for all but EU-approved essential use exemptions.	See Skyworks PFAS Definitions and Substance List - SQ03-0701
Perfluorohexanoic Acid (PFHxA)	See Skyworks PFAS Definitions and Substance List - SQ03-0701	25 ppb for the sum of PFHxA and its salts 1,000 ppb for the sum of PFHxArelated substances	Protective coatings, color filter resist coatings	Prohibited	See Skyworks PFAS Definitions and Substance List - SQ03-0701
REACH Candidate List of SVHCs	Check the ECHA website for the updated list at http://echa.europa.eu/candidate-list- table	1,000 ppm at the material level		Begin phase-out immediately. Expect future restrictions	REACH Candidate List of SVHCs
Bisphenol Chemicals		100 ppm	Adhesives, plastics, epoxy resin	Begin phase-out immediately. Expect future restrictions	Skyworks
Brominated Organic Solvents		100 ppm		Begin phase-out immediately. Expect future restrictions	Skyworks
Formaldehyde-releasing substances	Including but not limited to the compounds in the reference link.	Formaldehyde released from substance exceeds a concentration of 0.124 mg/m3 in the air of a test chamber used under the conditions prescribed in EN 717-1.	8	Begin phase-out immediately. Expect future restrictions	https://echa.europa.eu/docume nts/10162/13641/rest_formalde hyde_axvreport_en.pdf/
Parts/Components utilizing RoHS exemptions	http://ec.europa.eu/environment/waste/ro hs_eee/index_en.htm	Individual substance thresholds as per the RoHS directive		Begin phase-out immediately. Expect future restrictions	2011/65/EU
Phenyl, Isopropylated Phosphate (3:1) or PIP 3:1	68937-41-7	Any intentional use	Plasticizer, flame retardant, or anti wear additive in plastics, adhesives, lubrical ts	Restricted (See Section 3)	TSCA Section 6(h)
Skin sensitizing substances	Including but not limited to the compounds in the reference link.	Various	Only applicable to leather, textile, hide, and fur articles. Natural leather is exampt.	Begin phase-out immediately. Expect future restrictions	https://echa.europa.eu/de/regis try-of-restriction-intentions/- /dislist/details/0b0236e1824461 36
Volatile Organic Compounds (VOCs)				Begin phase-out immediately. Expect future restrictions. Includes VOC content and substance restrictions for paints, coatings, inks, adhesives, primers, and cleaners	

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