flex

Flex IPC1752 material declaration Anthesis format

CONFIDENTIAL

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Contents

Instruction file to fill Flex material declaration (Anthesis format)

Step 1: Business Info

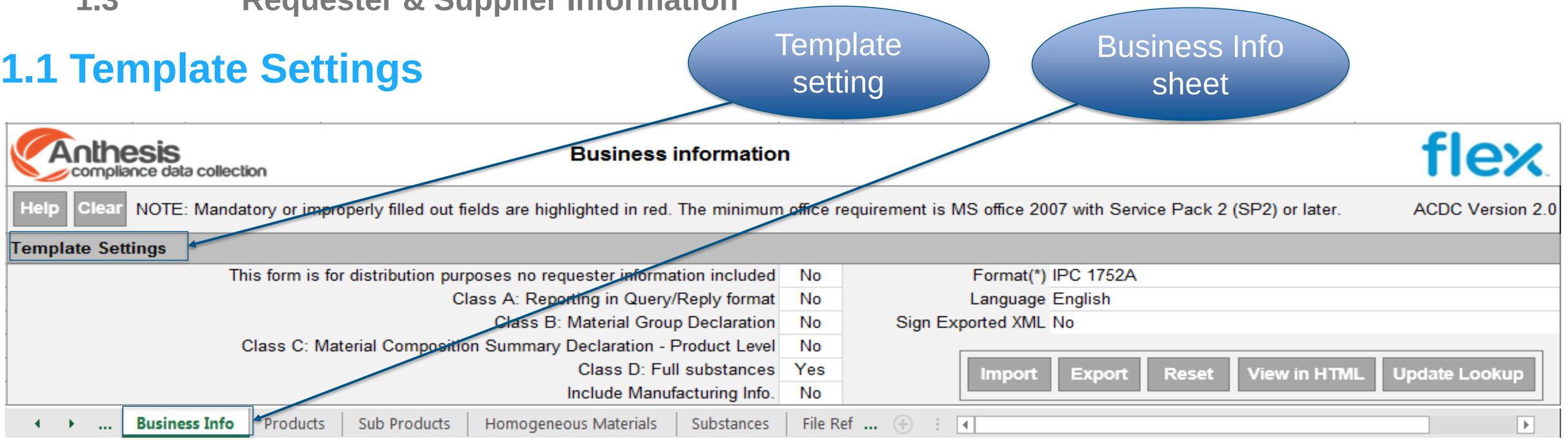
This worksheet is divided into three (3) sections that Supplier required to complete.

1.1 Template Settings

1.2 Legal Statement and

1.3 Requester & Supplier Information

1.1 Template Settings



Red highlighted cells are mandatory fields

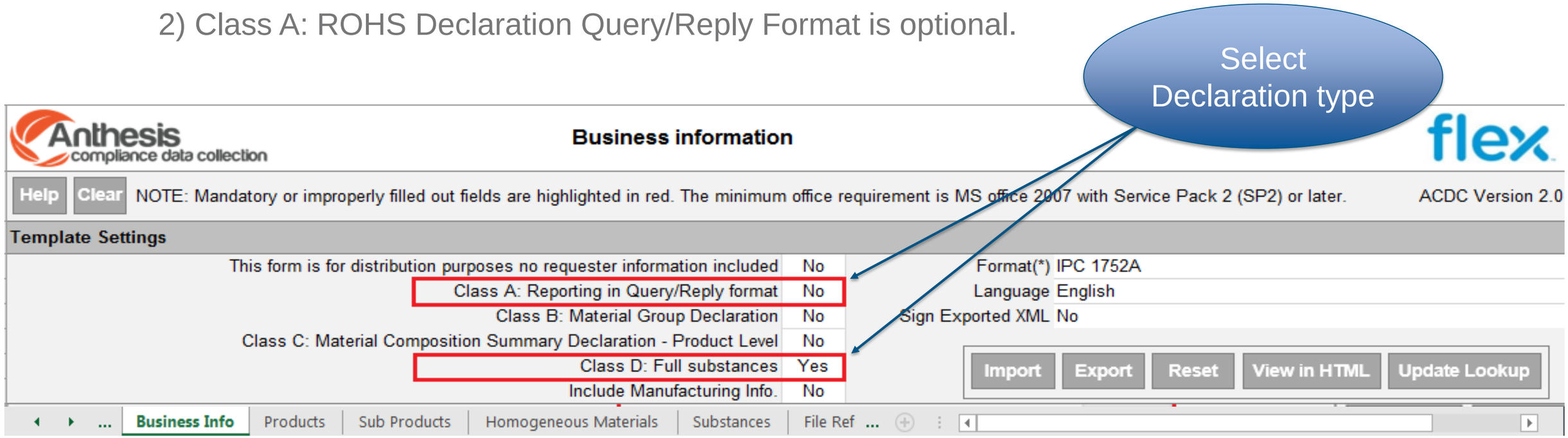
Instruction file to fill Flex material declaration (Anthesis format)

Different IPC 1752A Declaration types are displayed.

Supplier is required to choose

1) Class D: Material declaration of all substances present in each homogeneous material .

2) Class A: ROHS Declaration Query/Reply Format is optional.

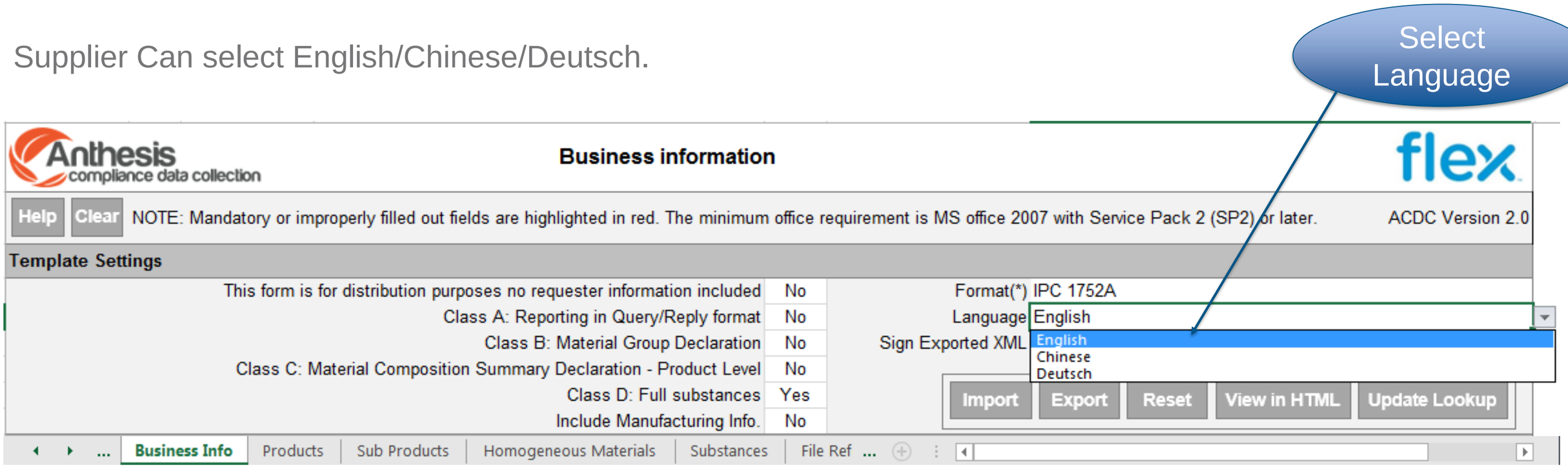


Red highlighted cells are mandatory fields

Instruction file to fill Flex material declaration (Anthesis format)

The form allows user to import earlier versions of IPC 1752 PDF and convert to IPC 1752A xml format.
The default Format requirement of the Form is IPC 1752A.

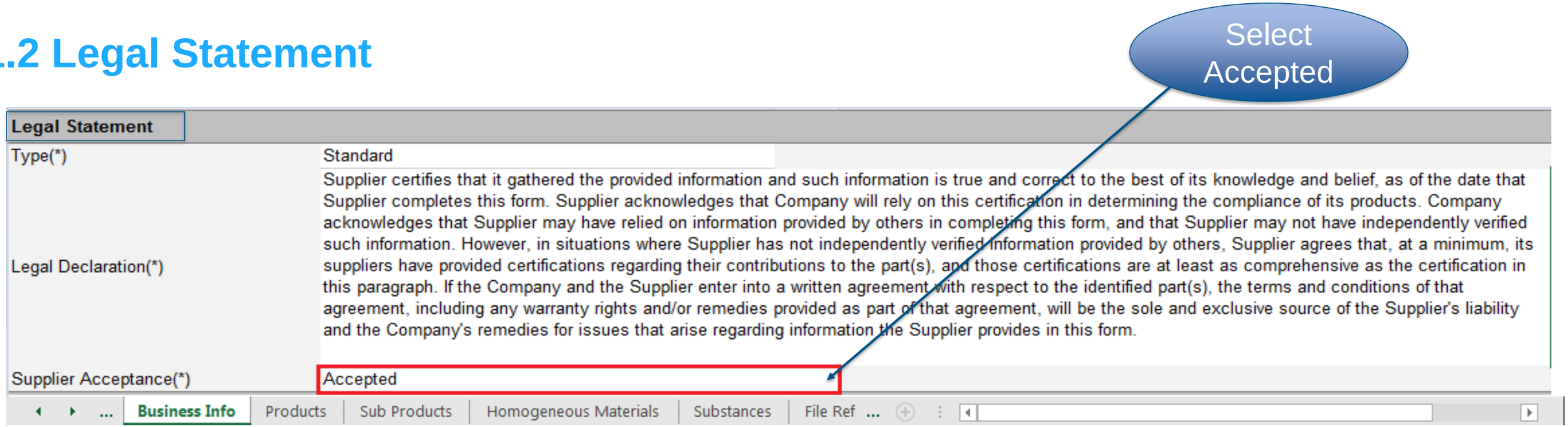
Supplier Can select English/Chinese/Deutsch.



Red highlighted cells are mandatory fields

Instruction file to fill Flex material declaration (Anthesis format)

1.2 Legal Statement



The supplier agrees to the declaration statement above.

From the dropdown provided, choose ‘Accepted’ upon your acceptance of the Legal declaration described.

Instruction file to fill Flex material declaration (Anthesis format)

1.3 Requester Information

Requester Information	
Company Name (*)	
Request Date(*)	
Document ID	
Respond By Date	
Contact Name(*)	
Email(*)	
Phone(*)	
Field Lock	No

Company Name: This is a mandatory field and prepopulated in the request.

Request Date: The date the request was sent to supplier. Enter a date with MM/DD/YYYY format. This is a mandatory field and prepopulated in the request.

Document ID: The distinctive identification number of the document sent to the supplier. This is prepopulated in the request and must not be changed by the supplier upon submittal.

Respond by Date: The response/submittal due date of the request for the supplier. This is a mandatory field and prepopulated in the request.

Contact Name: Name of the person who supplier should contact regarding the request. This is a mandatory field and prepopulated in the request.

Email: Email address of the person who customer should contact regarding the request. This is a mandatory field and prepopulated in the request.

Phone: Phone number of the person who supplier should contact regarding the request. This is a mandatory field and prepopulated in the request.

Field Lock: Click the check box provided if you would like to lock the Requester info in the exported XML.

***Red highlighted cells are mandatory fields**

Instruction file to fill Flex material declaration (Anthesis format)

Supplier Information

Supplier Information		
Company Name (*)		
Response Date(*)		
Document ID		
Authorized Rep(*)		
Email(*)		
Phone(*)		
Vendor ID		
Field Lock	No	
Contact Name(*)	Contact Email(*)	Contact Phone(*)

Details should be filled as of supplier/Manufacturer info

Do not modify the Company Name or Vendor ID provided by FLEX

Company Name: Insert your Company's Legal Name. Please do not use abbreviations. This is a mandatory field. An error will be prompted when no data is inputted.

Response Date: Indicate the date that the form was completed. Enter a date with MM/DD/YYYY. This is a mandatory field. An error will be prompted when no data is inputted.

Document ID: The distinctive identification number of the document sent to the supplier. This should not be changed upon submittal.

Authorized Rep: Name of the person that FLEX should contact regarding the request. You may include the title and position after the name. This is a mandatory field. An error will be prompted when no data is inputted.

Email: Indicate the email address of the authorized person that FLEX should contact regarding the request. This is a mandatory field. An error will be prompted when no data is inputted.

Phone: Indicate the Phone number of the authorized person that FLEX should contact regarding the request. This is a mandatory field. An error will be prompted when no data is inputted.

Field Lock: Click the check box provided if you would like to lock the Requester info in the exported XML

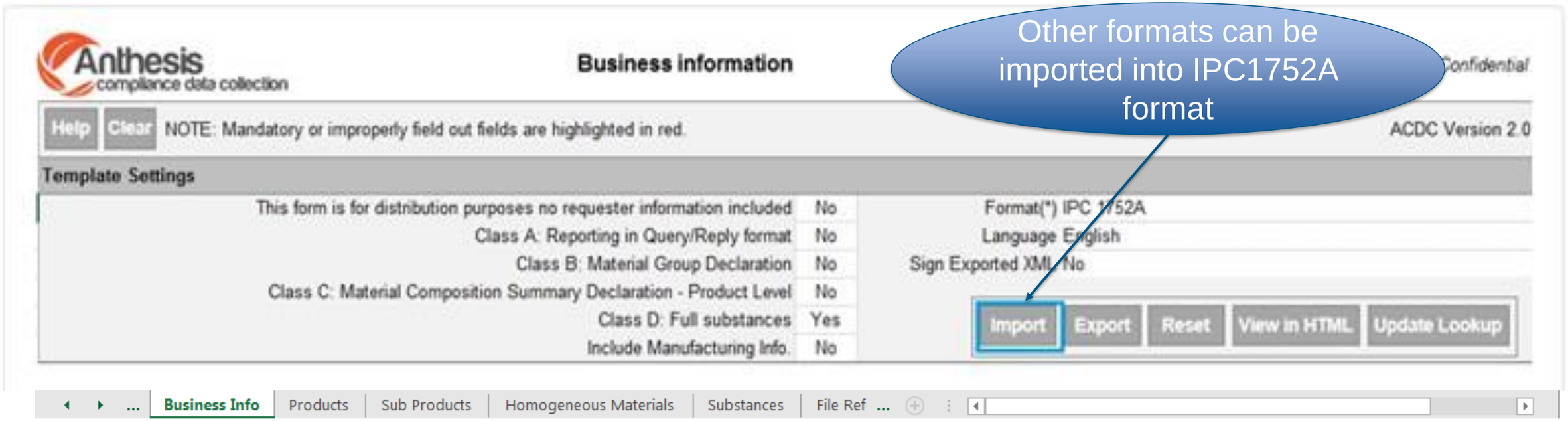
***Red highlighted cells are mandatory fields**

Instruction file to fill Flex material declaration (Anthesis format)

Using the Function Buttons

Import – This step is for importing material declaration from other format (IPC builder, IPC pdf, Supplier format) to Anthesis

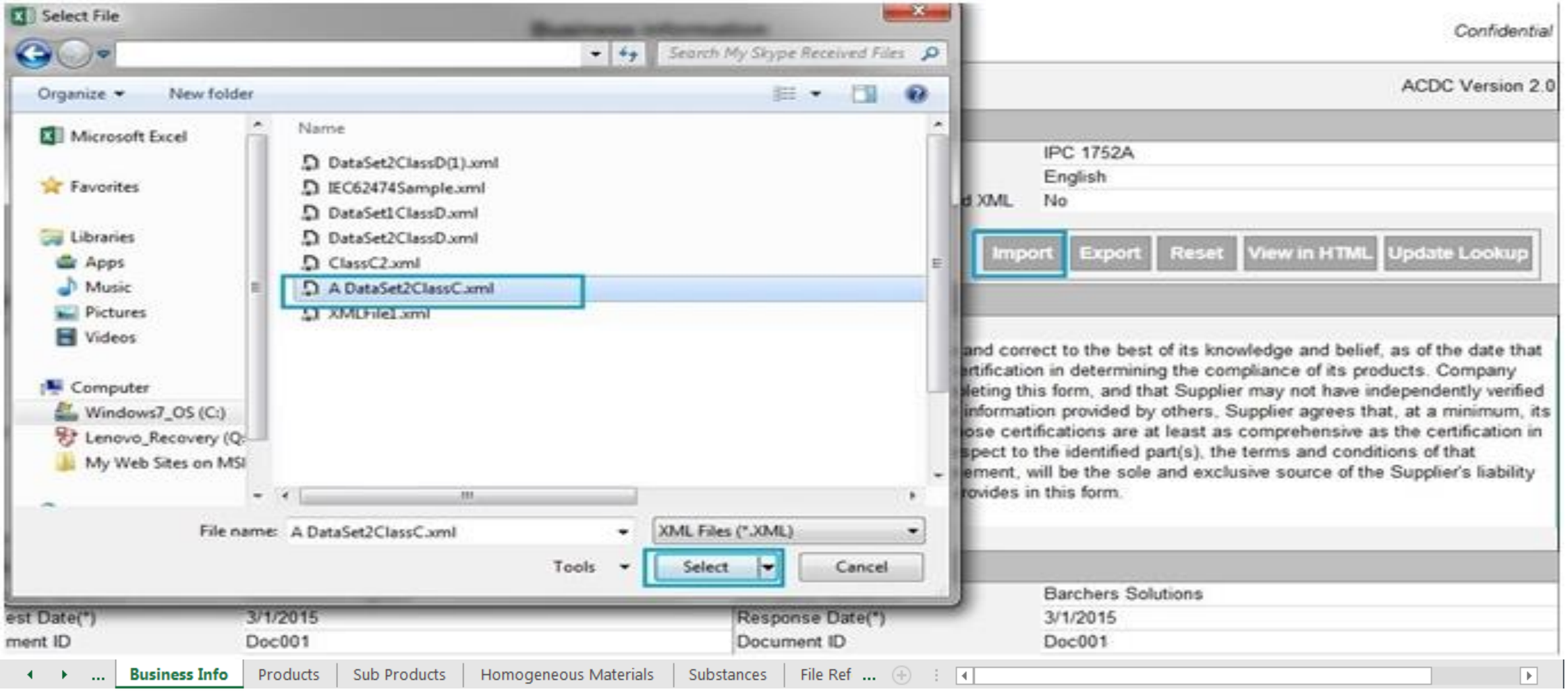
Click on the Import button and load the IPC 1752A XML file and the data will be loaded into the form. You may also use this function if you would like to edit previous XML with similar format.



Select the format of the file you are trying to import, i.e. IPC 1752A

Red highlighted cells are mandatory fields

Instruction file to fill Flex material declaration (Anthesis format)



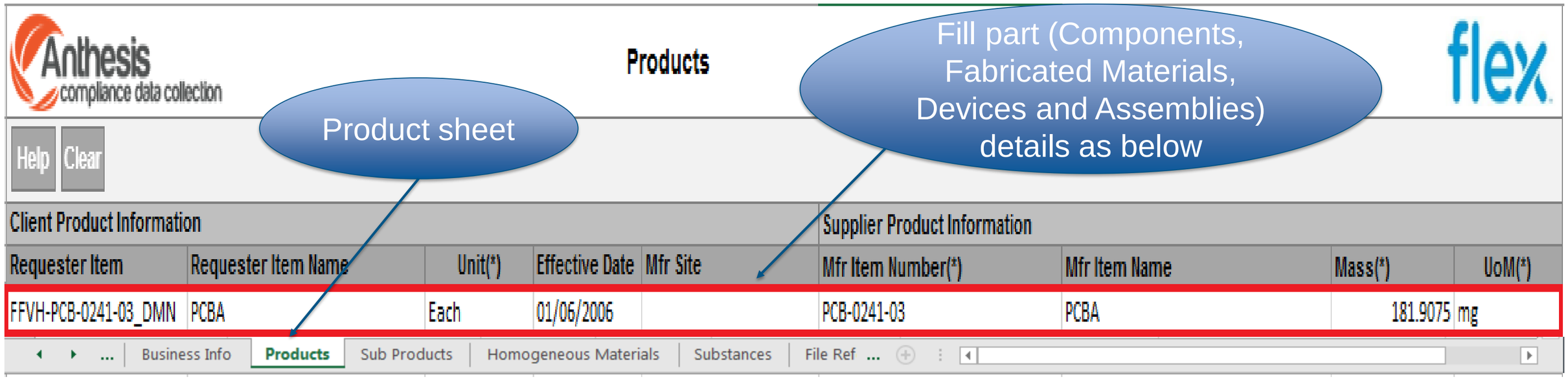
Red highlighted cells are mandatory fields

Instruction file to fill Flex material declaration (Anthesis format)

Step 2: Product sheet – For creating Material declaration from scratch

This section provides details of the part (Components, Fabricated Materials, Devices and Assemblies) for which Full Materials Disclosure (FMD) data is provided. It requires input of the following: Requester Item Number, Requester Item Name, Unit, Manufacturer Item Number, Manufacturer Item Name, Mass, Unit of Measurement (UoM)

**Note: All required files must contain data because the data is linked to other tabs.



Red highlighted cells are mandatory fields

For Filling Components, Fabricated Materials, Devices and Part level

Instruction file to fill Flex material declaration (Anthesis format)

Sheet 4: Homogeneous Materials Part (Components, Fabricated Materials, Devices and Assemblies level)

Data filled for Component “eg- Capacitor”

This section is to identify the homogeneous materials of the Components/Fabricated Materials. A maximum of 1995 Homogeneous Materials in one declaration will be accepted by the form.

Anthesis compliance data collection

Homogeneous Materials

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Help | Clear

Sum of all declared masses should be minimum of 99% and maximum of 100% declared product masses. Please refer to the Settings Tab.

Sub Product	Material Group Name	Homogeneous Material(*)	Mass(*)	UoM(*)
	Ceramics	Dielectric	0.67	mg
	Nickel and Nickel alloys	Inner Electrode	0.12	mg
	Copper and its alloys	Terminal Electrode	0.4	mg
	Nickel Plating	Electro-Plating(Ni)	0.03	mg
	Tin Plating	Electro-Plating(Sn)	0.03	mg

Homogeneous Material sheet

... | Business Info | Products | Sub Products | **Homogeneous Materials** | Substances | File Ref ...

***Red highlighted cells are mandatory fields**

Instruction file to fill Flex material declaration (Anthesis format)

Step 5: Substances (Part/Component level)

This section is to identify the substances of the Product or if the Product has Sub Products. A maximum of 4995 substances in one declaration will be accepted by the form

Data filled for Component “eg- Capacitor”

Anthesis compliance data collection

Substances

Confident

Help Clear

Sum of substances declared masses should be minimum of 99.9% and maximum of 100.2% declared homogeneous materials. Please refer to the Settings Tab.

Homogeneous Material(*)	Level	Substance Categorg	Substance Name(*)	CAS # OR	Mass(*)	UoM(*)	Conc(%)	Exemption	Description
Dielectric	Supplier	Supplier	Barium Titanate	12047-27-7	0.02	mg	2985074.627		
Dielectric	Supplier	Supplier	Zirconium Calcium Oxide	12013-47-7	0.52	mg	77611940.3		
Dielectric	Supplier	Supplier	Sitronium Oxide	1314-11-0	0.1	mg	14925373.13		
Dielectric	Supplier	Supplier	MISC., NOT TO DECLARE	SYSTEM	0.03	mg	4477611.94		
Inner Electrode	Supplier	Supplier	NICKEL	7440-02-0	0.12	mg	100000000		
Terminal Electrode	Supplier	Supplier	COPPER	7440-50-8	0.4	mg	100000000		
Electro-Plating(Ni)	Supplier	Supplier	NICKEL	7440-02-0	0.03	mg	100000000		
Electro-Plating(Sn)	Supplier	Supplier	TIN	7440-31-5	0.03	mg	100000000		

Substance sheet

... | Business Info | Products | Sub Products | Homogeneous Materials | Substances | File Ref ...

Red highlighted cells are mandatory fields

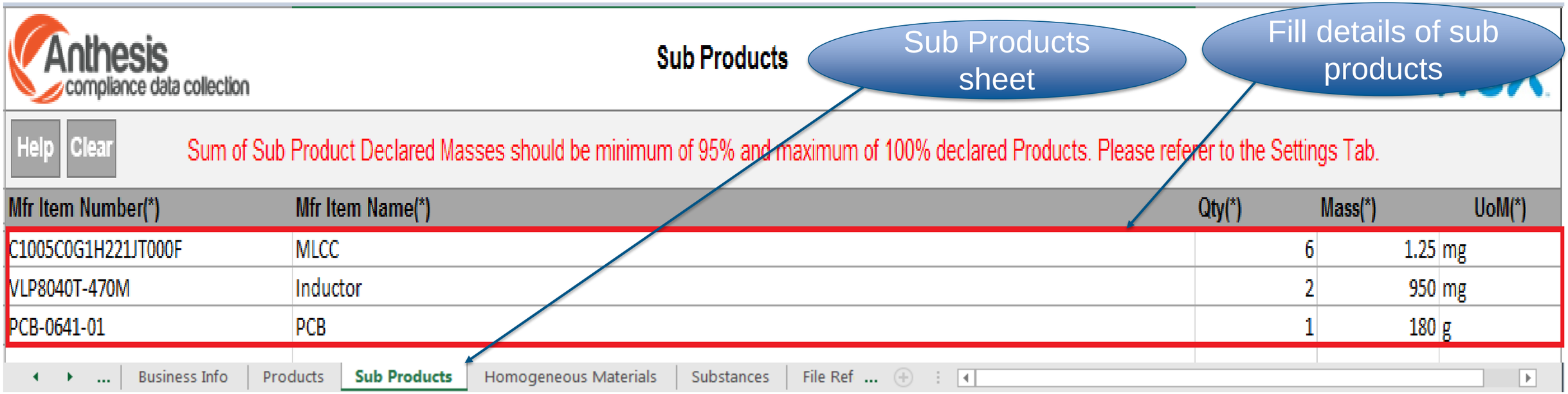
For Filling Assembly level

Instruction file to fill Flex material declaration (Anthesis format)

Sheet 3: Sub Products (only assembly level)

This section is only for Products with Sub Products (assembly level). If the products or parts that you declared in the Products tab do not have subparts, you may skip this section without getting an error tag. A maximum of 450 Sub Products in one declaration will be accepted by the form.

*If filling declaration for component skip this sheet



Red highlighted cells are mandatory fields

Instruction file to fill Flex material declaration (Anthesis format)

Sheet 4: Homogeneous Materials **(assembly level)**

Data filled for assembly “eg-PCBA”

This section is to identify the homogeneous materials of the Product or if the Product has Sub Products. A maximum of 1995 Homogeneous Materials in one declaration will be accepted by the form.

Anthesis compliance data collection — **Homogeneous Materials** — flex

Help | Clear

Sum of Homogeneous Declared Masses should be minimum of 95% and maximum of 100% declared Products. Please referer to the Settings Tab.

Sub Product	Material Group Name	Homogeneous Material(*)	Mass(*)	UoM(*)
C1005C0G1H221JT000F - MLCC	Ceramics	Dielectric	0.67	mg
C1005C0G1H221JT000F - MLCC	Nickel and Nickel alloys	Inner Electrode	0.12	mg
C1005C0G1H221JT000F - MLCC	Copper and its alloys	Terminal Electrode	0.4	mg
C1005C0G1H221JT000F - MLCC	Nickel plating	Electro-Plating(Ni)	0.03	mg
C1005C0G1H221JT000F - MLCC	Tin plating	Electro-Plating(Sn)	0.03	mg
VLP8040T-470M - Inductor	Highly alloyed cast iron	Ferrite core(DR)	437	mg
VLP8040T-470M - Inductor	Copper and its alloys	Wire	278.4	mg
VLP8040T-470M - Inductor	Other	Wire coating	11.6	mg
VLP8040T-470M - Inductor	Copper and its alloys	Terminal	110.51	mg
VLP8040T-470M - Inductor	Nickel plating	Terminal(underp plating)	2.23	mg
VLP8040T-470M - Inductor	Tin plating	Terminal(outer plating)	9.26	mg
VLP8040T-470M - Inductor	Other	Adhesive	1	mg
VLP8040T-470M - Inductor	Other	Ink	0.4	mg
PCB-0641-01 - PCB	Other	LAMINATE	158.7348	g
PCB-0641-01 - PCB	Other	LEGEND	6.9444	g
PCB-0641-01 - PCB	Other	SOLDER MASK	10.1934	g
PCB-0641-01 - PCB	Other	TIN	4.1274	g

Homogeneous Material sheet

... | Business Info | Products | Sub Products | **Homogeneous Materials** | Substances | File Ref ...

Red highlighted cells are mandatory fields

Instruction file to fill Flex material declaration (Anthesis format)

Step 5: Substances (assembly level)

This section is to identify the substances of the Product or if the Product has Sub Products. A maximum of 4995 substances in one declaration will be accepted by the form

Data filled for assembly “eg-PCBA”

Anthesis compliance data collection — Substances — flex

Help | Clear

Sum of Substances Declared Masses should be minimum of 95% and maximum of 100% declared Products. Please referer to the Settings Tab.

Homogeneous Material(*)	Level	Substance Categorg	Substance Name(*)	CAS # OR Proprietary	Mass(*)	UoM(*)	Conc(%)	Exemption	Description
C1005C0G1H221JT000F - MLCC / Dielectric	Supplier	Supplier	Barium Titanate	12047-27-7	0.02	mg	2.985074627		
C1005C0G1H221JT000F - MLCC / Dielectric	Supplier	Supplier	Zirconium Calcium Oxide	12013-47-7	0.52	mg	77.6119403		
C1005C0G1H221JT000F - MLCC / Dielectric	Supplier	Supplier	Strontium Oxide	1314-11-0	0.1	mg	14.92537313		
C1005C0G1H221JT000F - MLCC / Dielectric	Supplier	Supplier	MISC., NOT TO DECLARE	SYSTEM	0.03	mg	4.47761194		
C1005C0G1H221JT000F - MLCC / Inner	Supplier	Supplier	NICKEL	7440-02-0	0.12	mg	100		
C1005C0G1H221JT000F - MLCC / Terminal Electrode	Supplier	Supplier	Copper	7440-50-8	0.4	mg	100		
C1005C0G1H221JT000F - MLCC / Electro-Plating(Ni)	Supplier	Supplier	NICKEL	7440-02-0	0.03	mg	100		
C1005C0G1H221JT000F - MLCC / Electro-Plating(Sn)	Supplier	Supplier	TIN	7440-31-5	0.03	mg	100		
VLP8040T-470M - Inductor / Ferrite core(DR)	Supplier	Supplier	Iron oxide	1309-37-1	437	mg	100		
VLP8040T-470M - Inductor / Wire	Supplier	Supplier	Copper	7440-50-8	278.4	mg	100		
VLP8040T-470M - Inductor / Wire coating	Supplier	Supplier	Polyurethane resin	9009-54-5	11.6	mg	100		
VLP8040T-470M - Inductor / Terminal	Supplier	Supplier	Copper	7440-50-8	98.685	mg	89.29961089		
VLP8040T-470M - Inductor / Terminal	Supplier	Supplier	LEAD	7439-92-1	0.221	mg	0.199981902	EL2011/534/EU\6(c)	Copper alloy containing up to 4% lead by weight
VLP8040T-470M - Inductor / Terminal	Supplier	Supplier	Tin	7440-31-5	11.604	mg	10.5004072		
VLP8040T-470M - Inductor / Terminal(underp plating)	Supplier	Supplier	NICKEL	7440-02-0	2.23	mg	100		
VLP8040T-470M - Inductor / Terminal(outer plating)	Supplier	Supplier	TIN	7440-02-0	9.26	mg	100		
VLP8040T-470M - Inductor / Adhesive	Supplier	Supplier	Bisphenol F type epoxy resin	9003-36-5	1	mg	100		
VLP8040T-470M - Inductor / Ink	Supplier	Supplier	Bis(methacryloyloxyethyl) hydrogen phosphate	32435-46-4	0.4	mg	100		
PCB-0641-01 - PCB / LAMINATE	Supplier	Supplier	COPPER	7440-50-8	158.7348	g	100		
PCB-0641-01 - PCB / LEGEND	Supplier	Supplier	EPOXY ACRYLATE RESIN	9300-19-4	6.9444	g	100		
PCB-0641-01 - PCB / SOLDER MASK	Supplier	Supplier	BARITE	7727-43-7	10.1934	g	100		
PCB-0641-01 - PCB / TIN	Supplier	Supplier	TIN	7440-31-5	4.1274	g	100		

... | Business Info | Products | Sub Products | Homogeneous Materials | Substances | File Ref ...

Substance sheet

Red highlighted cells are mandatory fields

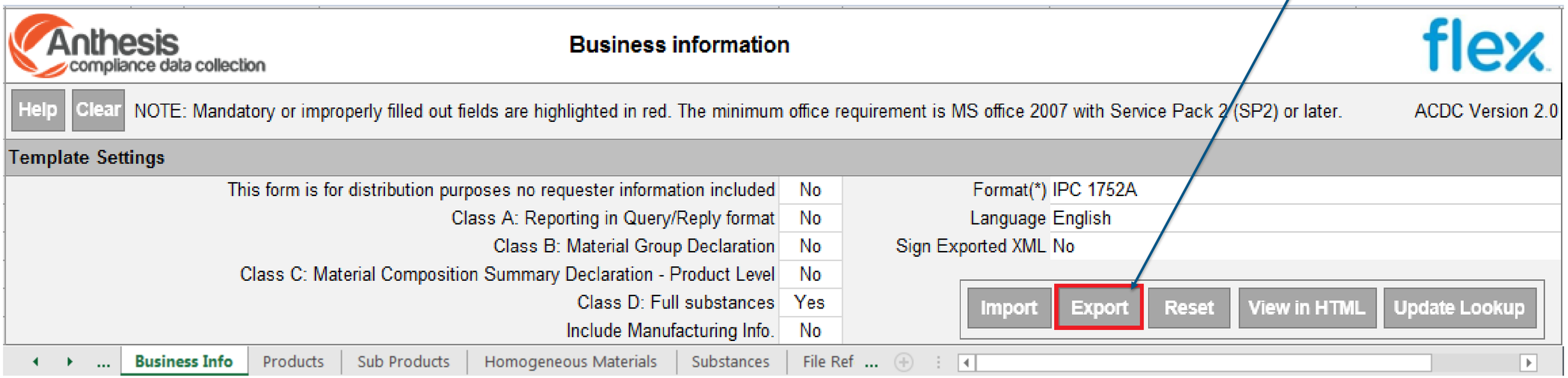
Instruction file to fill Flex material declaration (Anthesis format)

Export

Suppliers should submit the form once completed filling all the sheets.

Once all the sheets are filled, file should be exported into XML format - To do this follow below steps

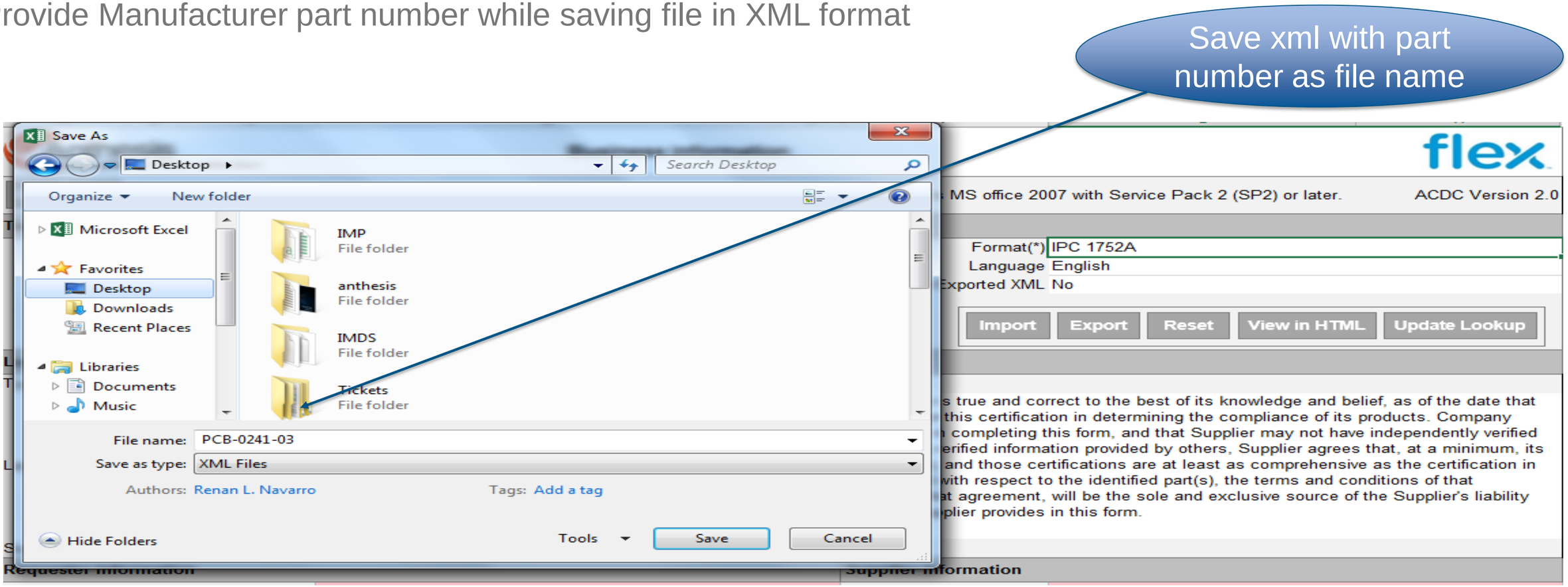
Click on Export Tab



***Red highlighted cells are mandatory fields**

Instruction file to fill Flex material declaration (Anthesis format)

Provide Manufacturer part number while saving file in XML format



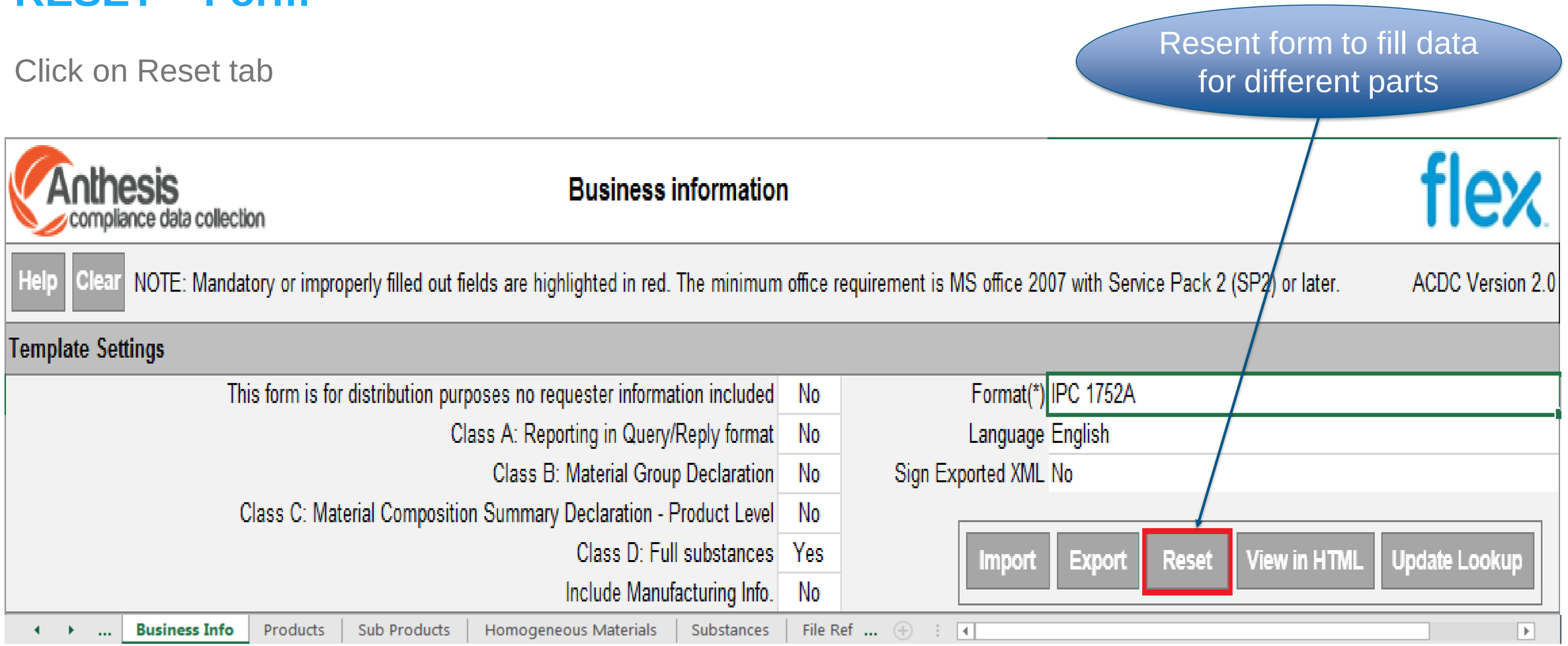
Once the file is saved - send file back to Flex contact person through mail as attachment

***Red highlighted cells are mandatory fields**

Instruction file to fill Flex material declaration (Anthesis format)

RESET – Form

Click on Reset tab



Red highlighted cells are mandatory fields

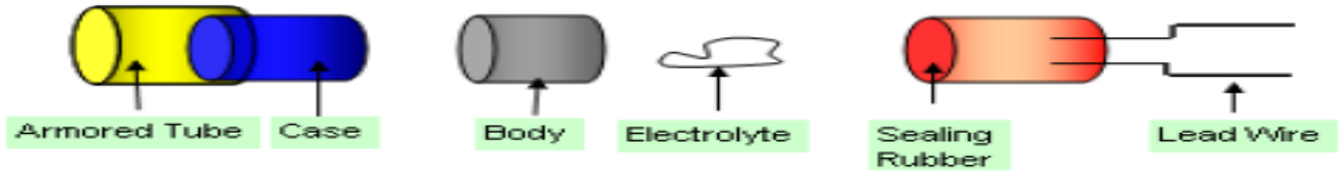
Sample Full material Declaration

Example 1
Description Electrolyte Capacitor

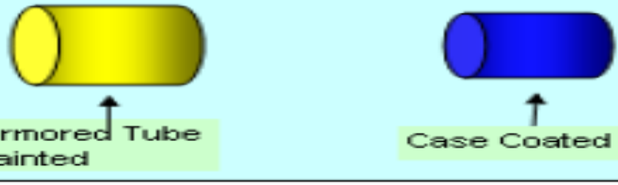
Passive Component

Electrolytic capacitor

List of each Homogeneous breakdown & Materials Composition



This is an example of the Condenser which is surface -

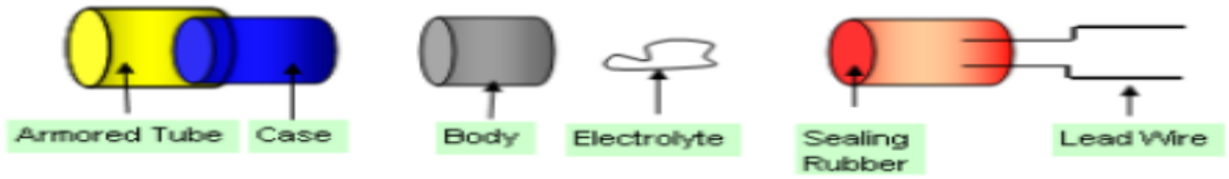


Product	Homogenous	Material in %	Weight (mg)	Weight (%)	Homogeneous (PPM)	Component (PPM)
Capacitor	Armored Tube	Silver 99%	70	7.07	990000	69993
		Painting(Yellow Pigment) 1%			10000	707
	Case	Aluminium Alloy 98%	500	50.51	980000	494998
		Metal plating (Nickel) 2%			20000	10102
	Body	Aluminium Alloy 56%	120	12.12	560000	67872
		Other woods & papers 44%			440000	53328
	Electrolyte	Ethylene Glycol Ethers 100%	80	8.08	1000000	80800
	Sealing Rubber	Synthetic Rubber 100%	70	7.07	1000000	70700
	Lead Wire	Cu 97%	150	15.15	970000	146955
		Pb Solder 3%			30000	4545
		Component weight :	990	100		1000000

* (The following values are just an example, not related to the actual parts which manufactured)

Sample Full material Declaration

List of each Homogeneous breakdown & Materials Composition



This is an example of the Condenser which is surface -

Product	Homogenous	Material in %	Weight (mg)	Weight (%)	Homogeneous (PPM)	Component (PPM)
Capacitor	Armored Tube	Silver 99%	70	7.07	990000	69993
		Painting(Yellow Pigment) 1%			10000	707
	Case	Aluminium Alloy 98%	500	50.51	980000	494998
		Metal plating (Nickel) 2%			20000	10102
	Body	Aluminium Alloy 56%	120	12.12	560000	67872
		Other woods & papers 44%			440000	53328
	Electrolyte	Ethylene Glycol Ethers 100%	80	8.08	1000000	80800
	Sealing Rubber	Synthetic Rubber 100%	70	7.07	1000000	70700
	Lead Wire	Cu 97%	150	15.15	970000	146955
		Pb Solder 3%			30000	4545
		Component weight :	990			

* (The following values are just … actual …

Calculate Homogeneous PPM
= (Material %) x 1000000
= (3%) x 1000000
= 30000 PPM

Calculate Component PPM
= Homogeneous PPM x (Homogeneous Weight Ratio)
= 30000 x (Weight (%) / 100)
= 30000 x (15.15 / 100)
= 30000 x 0.1515
= 4545 PPM

Guide

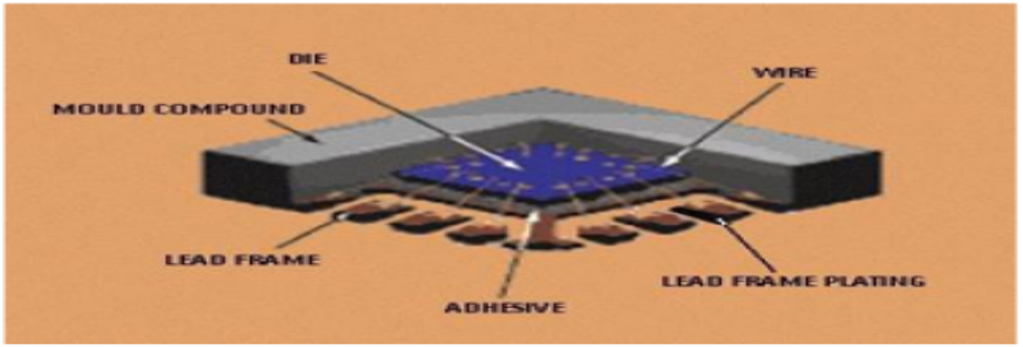
- Total Component Level concentration must be between 99% and 100%, i.e. the total component level concentration can not be less than 990000 ppm or greater than 1000000 ppm.
- Concentration of a Homogeneous material must amount to at least 990000 ppm but not be greater than 1000000 PPM.
- Please note that the value of final component level concentration is affected by the homogeneous level concentrations.

Sample Full material Declaration

Example 2

Description Integrated Circuit

HOMOGENOUS MATERIAL BREAKDOWN



MATERIAL COMPOSITION TABLE FOR INTERGRATED CIRCUIT (IC)

Product	Homogenous material	Substances	CAS number	Mass(mg)	Mass (%)	Homogenous ppm	Component ppm
IC	**Wire**	Gold (Au)	7440-57-5	0.19	0.4201	1000000	4201
	Adhesive	Resin system	29690-82-2	0.22	0.6412	758621	4864
		Silver (Ag)	7440-22-4	0.07		241379	1548
	Die	Silicon (Si)	7440-21-3	0.46	1.0170	1000000	10170
	Pre-plating	Palladium (Pd)	7440-05-3	0.02	1.0391	42553	442
		Nickel (Ni)	7440-02-0	0.44		936170	9728
		Gold (Au)	7440-57-5	0.01		21277	221
	Lead Frame	Copper (Cu)	7440-50-8	19.48	44.1521	975463	430688
		Nickel (Ni)	7440-02-0	0.49		24537	10834
	Mould Compound	Misc. Bromine Compounds	40039-93-8	0.43	52.7305	18029	9507
		Silica (SiO2)	14808-60-7	17.68		741300	390891
		Antimony trioxide	1309-64-4	0.43		18029	9507
		Epoxy resin system	29690-82-2	5.31		222642	117400
			TOTAL:	**45.23**			1000000

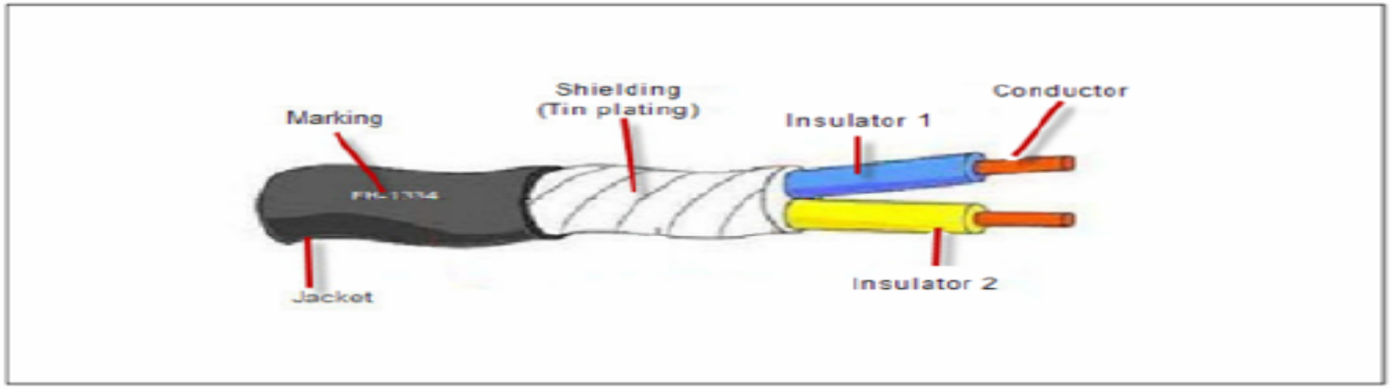
* The values are just example, not related to the actual parts which manufactured

Sample Full material Declaration

Example 3
Description Cable

List of each homogeneous breakdown & material composition

Cable



Product	Homogeneous	Homogeneous Weight (mg)	Homogeneous Weight (%)	Substance (Wt %)	CAS #	Homogeneous level (PPM)	Component level (PPM)
Cable	Jacket	24940.000	58.0000%	PVC (100%)	9002-86-2	1000000.0000	580000.0000
	Marking	30.100	0.0700%	Ethyl Alcohol (12.1%)	64-17-5	121200.0000	84.8400
				N- Propyl Alcohol (19.5%)	71-23-8	195200.0000	136.6400
				Ethylene Glycol Monobutyl Ether (39.4%)	111-76-2	394100.0000	275.8700
				Resin (18.9%)	Proprietary	188500.0000	131.9500
				Carbon Black, Amorphous (10.1%)	1333-86-4	101000.0000	70.7000
	Shielding	2085.500	4.8500%	Copper (100%)	7440-50-8	1000000.0000	48500.0000
	Shielding-Tin plating	64.500	0.1500%	Tin (100%)	7440-31-5	1000000.0000	1500.0000
	Insulator 1	1728.385	4.0195%	Polyethylene (99.9%)	9002-88-4	999000.0000	40154.8050
				Blue Pigment (0.1%)	Misc	1000.0000	40.1950
	Insulator 2	1728.385	4.0195%	Polyethylene (99.9%)	9002-88-4	999000.0000	40154.8050
				Yellow Pigment (0.1%)	Misc	1000.0000	40.1950
	Conductor	12423.130	28.8910%	Copper (100%)	7440-50-8	1000000.0000	288910.0000
	Component weight :	43000	100%			7000000	1000000

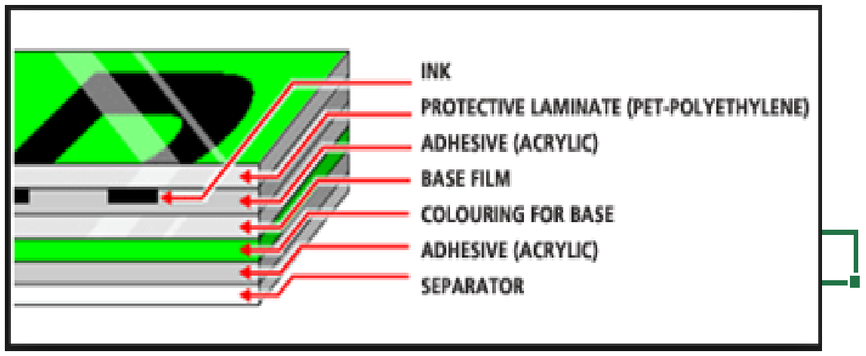
(The following values are just an example,not related to the actual parts which manufactured)

Sample Full material Declaration

Example 4
Description Label

List of each Homogeneous breakdown & material composition

Lable

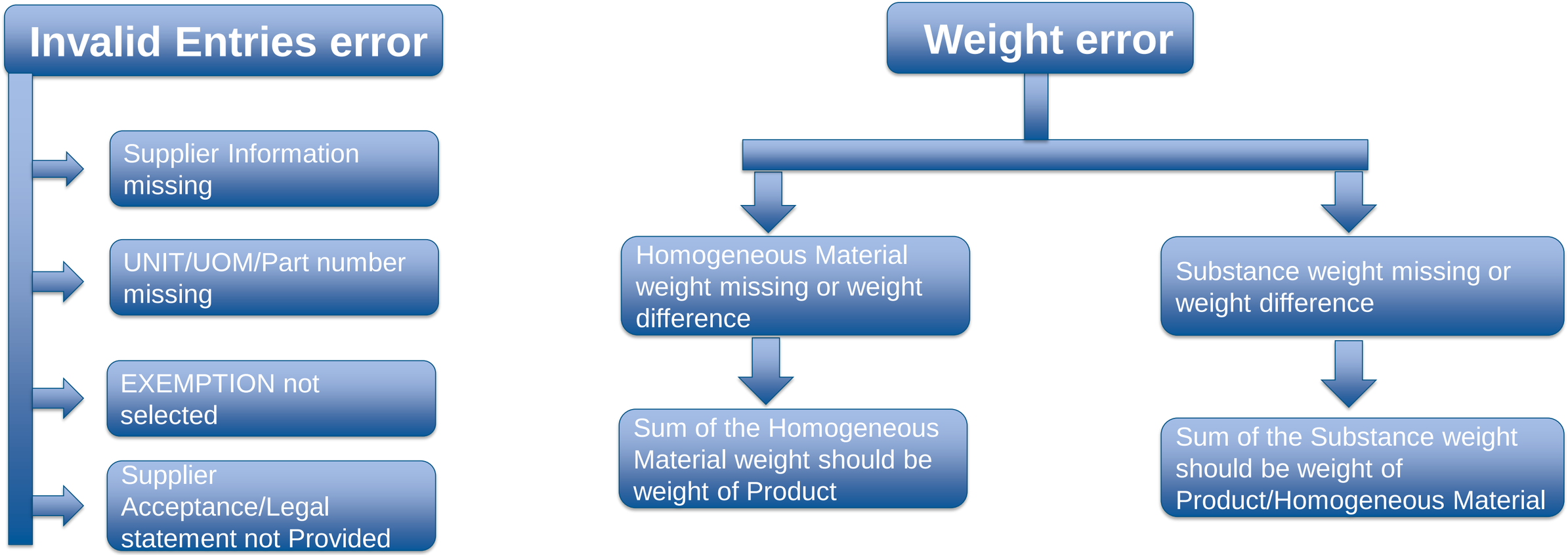


Product	Homogeneous	Homogeneous Weight (mg)	Homogeneous Weight (%)	Substance (Wt %)	CAS #	Homogeneous level (PPM)	Component level (PPM)
Lable	Ink	2	14%	CuPc, Phthalocyanine blue(100%)	147-14-8	1000000	137931
	Protective Laminate	5	34%	Poly(ethyl benzene-1,4-dicarboxylate)(100%)	25038-59-9	1000000	344828
	Adhesive	3	21%	Acrylic Polymer(100%)	9063-87-0	1000000	206897
	Colouring for Base	0.5	3%	Monoazo Yellow(100%)	2904-04-3	1000000	34483
	Separator	4	28%	polypropene(100%)	9003-07-0	1000000	275862
Component weight :		14.5	100%			5000000	1000000

(The following values are just an example, not related to actual parts which manufactured)

Instruction file to fill Flex material declaration (Anthesis format)

ERRORS To verify data filled please go to Data summary tab



Instruction file to fill Flex material declaration (Anthesis format)

INVALID ENTRIES ERRORS

Verify all the data filled correctly

Data Summary Sheet

Anthesis compliance data collection

Data Summary

Confidential

Help

Contains errors! Please check the required columns and Notes from different sheet!

Business Info Sheet		Hyperlink
Class Declaration		
Template Settings	Completed	FormatType
Legal Statement		
Type(*)	Completed	LegalDeclarationType
Legal Declaration(*)	Completed	LegalDeclaration
Supplier Acceptance(*)	Required	SupplierAcceptance
Requester Information		
Company Name (*)	Required	Requester Name
Request Date(*)	Required	Request Date
Contact Name(*)	Required	Requester Contact Name
Email(*)	Required	Requester Contact Email
Phone(*)	Required	Requester Contact Phone
Supplier Information		
Company Name (*)	Required	Supplier Name
Response Date(*)	Required	Supplier Response Date
Authorized Rep(*)	Required	Supplier Authorized Rep.
Email(*)	Required	Supplier AuthorizedRep. Email
Phone(*)	Required	Authorized Rep. Phone
Contact Name List	Required	Supplier Contact List

... | Substances | File Reference | Data Summary | Revision History | License

flex

Instruction file to fill Flex material declaration (Anthesis format)

WEIGHT ERRORS

Weight errors are highlighted

Anthesis compliance data collection

Data Summary

Confidential

Help

Contains errors! Please check the required columns and Notes from different sheet!

Business information	There is an error found in Business Info sheet.	Business Info sheet
Products	Completed	Products sheet
Sub Products	Completed	Sub Products sheet
Query Lists	Completed	Query Lists sheet
Query Exemptions	Completed	Query Exemptions sheet
Material Classes	Completed	Material Classes sheet
Substance Category Lists	Completed	Substance Category Lists sheet
Substance Category Exemptions	Completed	Substance Category Exemptions sheet
Homogeneous Materials	Completed	Homogeneous Materials sheet
Substances	Sum of substances declared masses should be minimum of 99.9% and maximum of 100.2% declared homogeneous materials. Please refer to the Settings Tab.	Substances sheet
Manufacturing Info	Completed	Manufacturing Info. sheet
Settings	Completed	Settings sheet

... | Substances | File Reference | **Data Summary** | Revision History | License

Thank You