



## Materials Declaration Form

<b>IPC Form Type *</b>	1752 Distribute	<b>Version</b>	2
<b>Sectionals *</b>	Material Info Manufacturing Info	<b>Subsectionals *</b>	A-D
<i>* : Required Field</i>			

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2018-04-18
<b>Company Unique ID</b>			
<b>Contact Name *</b>	Refer to Supplier comment section	<b>Contact Title</b>	Refer to Supplier comment section
<b>Contact Phone *</b>	Refer to Supplier comment section	<b>Contact Email *</b>	Refer to Supplier comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<b>Representative Title</b>	ADG Material Declaration Champion
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

Uncertainty Statement	
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Legal Statement	
<b>Supplier Acceptance *</b>	true
	<b>Legal Declaration *</b> Standard
<b>Legal Statement</b>	<p>Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.</p>

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
BALF-SPI2-02D3	LD6(*BLSPI2B	A	SH1A	2018-04-18
	Amount	UoM	Unit type	ST ECOPACK Grade
	3.4	mg	Each	ECOPACK® 2

Manufacturing information			
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	
Not Applicable	260	3	
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment
Tin/Silver/Copper (SAC305)	Tin/Silver/Copper (Sn/Ag/Cu)	Copper Alloy	



Package Designator	Size	Nbr of instances	Shape
BGA	2.19 - 1.64 - 0.4	4	bulk solder
Comment	Package: CSPG 0.4		

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	<b>TRUE</b>
2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	false
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Exemption Id.	Description

QueryList : California Prop65 list, dated 15th December 2017			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			<b>TRUE</b>
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			<b>FALSE</b>
Substance	amount in product (mg)	Application	ppm in product

QueryList : REACH-15th January 2018				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				<b>TRUE</b>
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Homogeneous Material above the limits per the definition within REACH				<b>TRUE</b>
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Homogeneous Material (mg)	Application - Homogeneous Material	ppm in Homogeneous Material

Material Composition Declaration						Mfr Item Name	LDE(*BLSPI2B					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	3.156	mg	supplier	metallisation	Aluminium (Al)	7429-90-5		0.014	mg	4436	4118
				supplier	metallisation	Copper (Cu)	7440-50-8		0.329	mg	104246	96765
				supplier	metallisation	Tantalum (Ta)	7440-25-7		0.020	mg	6337	5883
				supplier	die glass coating	Borosilicate glass	65997-17-3		1.999	mg	633397	587941
				supplier	die glass coating	Glass: Silicon Dioxide	7631-86-9		0.020	mg	6337	5883
				supplier	die polymer coating	PBO polybenzoxazol	29791-96-6		0.026	mg	8238	7647
				supplier	passivation	silica vitreous	60676-86-0		0.363	mg	115019	106765
				supplier	passivation	Epoxy resin	Proprietary		0.131	mg	41508	38529
				supplier	passivation	Acrylic polymer	Proprietary		0.131	mg	41508	38529
				supplier	passivation	Bis-phenol A diglycidyl ether	25036-25-3		0.045	mg	14259	13235
				supplier	passivation	carbon black	1333-86-4		0.004	mg	1267	1176
				supplier	passivation	Iron compound	7439-89-6		0.037	mg	11724	10882
				supplier	passivation	Zinc compound	7440-66-6		0.037	mg	11724	10882
Solder balls	Solder	0.244	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.236	mg	967213	69412
				supplier	solder alloy	Silver (Ag)	7440-22-4		0.007	mg	28689	2059
				supplier	solder alloy	Copper (Cu)	7440-50-8		0.001	mg	4098	294