



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2020-10-26
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	giovanni giacopello	Representative Title	ADG MD CHAMPION
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement

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Legal Statement

Supplier Acceptance *	true	Legal Declaration *	Standard
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Legal Statement

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.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
ESDALC6V1M3	8SPB*SLC6V13	A	996H	2020-10-26
	Amount	UoM	Unit type	ST ECOPACK Grade
	2	mg	Each	ECOPACK 2
Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)			

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	CD00127882	

Package Designator	Size	Nbr of instances	Shape	
QFN	1.00,0.60,0.52	3	flat	
Comment	VFQFPN 0.6x1 3L. MDF valid for CPs: ESDALC6V1M3,ESDALC6V1M3R			

QueryList : RoHS Directive 2011/65/EU-July 2011 Annex II amended by Delegated Directive 2015/863-March 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
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 : ELV directive : 2000/53/EC amended 2020/363_ March 2020	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : California Prop65 list, dated 3rd January 2020			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.02	die - leadframe	7727

QueryList : REACH-25th June 2020				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				TRUE
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 Embedded article nor Homogeneous Material above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

Responsible metals sourcing	
Query	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present is the component :	Gold,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

Material Composition Declaration :						Mfr Item Name	8SPB*SLC6V13					
note : Substance present with less 0.001mg will not be declared in this document												
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	0.028	mg	supplier	die	Silicon(Si)	7440-21-3		0.024	mg	857143	10907
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.002	mg	71429	909
				supplier	metallisation	Nicke(Ni)	7440-02-0		0.001	mg	35714	455
				supplier	passivation	Silicon oxide	7631-86-9		0.001	mg	35714	455
Leadframe	M-004 Copper and its alloys	0.400	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		0.379	mg	947500	172273
				supplier	alloy & coating	Nicke(Ni)	7440-02-0		0.016	mg	40000	7273
				supplier	alloy & coating	Magnesium(Mg)	7439-95-4		0.001	mg	2500	455
				supplier	alloy & coating	Silicon(Si)	7440-21-3		0.004	mg	10000	1818
Die attach	M-011 Other inorganic materials	0.017	mg	supplier	glue	Silver(Ag)	7440-22-4		0.014	mg	823529	6364
				supplier	glue	Methylene diacrylate polymer	42594-17-2		0.003	mg	176471	1364
Bonding wires	M-008 Precious metals	0.015	mg	supplier	wire	Gold(Au)	7440-57-5		0.015	mg	1000000	6818
Encapsulation	M-011 Other inorganic materials	1.740	mg	supplier	mold compound	Silica vitreous	60676-86-0		1.607	mg	923563	730455
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.070	mg	40230	31818
				supplier	mold compound	Phenol resin	26834-02-6		0.052	mg	29885	23636
				supplier	mold compound	Carbon black	1333-86-4		0.007	mg	4023	3182
				supplier	mold compound	Hexamethyldisilazane	999-97-3		0.004	mg	2299	1818