

Materials Declaration Form

IPC	1752	Version	2		
Form Type *	Distribute	VEISION	4		
Sectionals *	Material Info	Subsectionals *	A-D		
	Manufacturing Info		* : Required Field		

Supplier Information							
Company Name *	STMicroelectronics	Response Date *	2021-02-12				
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 *	marianna grasso	Representative Title	ADG MD CHAMPION				
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section				
Sunnlier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.htm	nl					

Uncertainty Statement

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Legal Statement

Supplier Acceptance * true Legal Declaration * Standard

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 omprehensive 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.

roduct							
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date			
STA8089GATTR	D0EG*V839BDX	Α	9998	2021-02-12			
	Amount	UoM	Unit type	ST ECOPACK Grade			
	135	mg	Each	ECOPACK 2			
Comment	ECOPACK® 2 is STMicroelectronics trade na Antimony oxide flame retardant (in each orga		out Brominated and Chlorinated co	mpound (900ppm) and without			

Manufacturing information						
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles				
3	260	3				
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life.augmented		
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00330516	111010		

Package Designator	Size	Nbr of instances	Shape		
Not Applicable	7.00,7.00,1.00	56	shape		
Comment	VFQFPN 7X7X1.0 56L PITCH 0.4. MDF valid for CPs	: STA8089GAT,STA8089GATTR			

QueryList: RoHS Directive 2011/65/EU-July 2011 Annex II amended by Delegated Directive 2015/863-March 2015						
	Response					
1 - Product(s) meets EU RoHS requirement without any exemptions						
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)						
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s) FALSI						
4 - Product(s) does not meet EU RoHS requir	4 - Product(s) does not meet EU RoHS requirements and is not under exemptions					
Exemption Id.	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						
2 - Product(s) meets EU RoHS requirements	FALSE					
Exemption Id.	escription					

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 co	TRUE						
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consur		FALSE					
Substance	ppm in product						

QueryList: REACH-19th January 2021								
	Response							
1 - Product(s) does not contain REACH Substa	TRUE							
CategoryLevel_Name	evel_Name CategoryLevel_Threshold amount in product (mg) Application							
2 - Product(s) does not contain REACH Sul REACH	TRUE							
CategoryLevel_Name	ppm in Article /Homogeneous Material							

Responsible metals sourcing					
Query					
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 :	lum, Tin,				
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .					

Material Composition Declaration note: Substance present with less	on: ss 0.001mg will not be declared in this document	ı				Mfr Item Name	C	OEG*V839BDX				
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	5.708	mg	supplier	die	Silicon(Si)	7440-21-3		5.280	mg	925018	39110
				supplier	metallisation	Aluminium(AI)	7429-90-5		0.030	mg	5256	222
				supplier	metallisation	Copper(Cu)	7440-50-8		0.179	mg	31358	1326
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.001	mg	175	7
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.029	mg	5081	215
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.008	mg	1402	59
				supplier	metallisation	Tungsten(W)	7440-33-7		0.001	mg	175	7
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.041	mg	7183	304
				supplier	passivation	Silicon oxide	7631-86-9		0.139	mg	24352	1030
Leadframe	M-004 Copper and its alloys	59.053	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		56.473	mg	956310	418319
				supplier	alloy & coating	Iron(Fe)	7439-89-6		1.361	mg	23047	10081
				supplier	alloy & coating	Phosphorus metal	7723-14-0		0.017	mg	288	126
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.070	mg	1186	519
				supplier	alloy & coating	Silver (Ag)	7440-22-4		1.132	mg	19169	8385
Die attach	M-011 Other inorganic materials	0.942	mg	supplier	glue	Silver (Ag)	7440-22-4		0.801	mg	850318	5933
				supplier	glue	Bisphenol F type epoxy resin	9003-36-5		0.057	mg	60510	422
				supplier	glue	epoxy resin	30583-72-3		0.038	mg	40340	281
				supplier	glue	t-Butyl phenyl glycidyl ether	3101-60-8		0.019	mg	20170	141
				supplier	glue	Phenolic resin	92-88-6		0.009	mg	9554	67
				supplier	glue	Phenol Resin	26834-02-6		0.009	mg	9554	67
				supplier	glue	Butyl cellosolve acetate	112-07-2		0.009	mg	9554	67
Bonding wires	M-008 Precious metals	0.173	mg	supplier	wire	Gold (Au)	7440-57-5		0.171	mg	988439	1267
				supplier	wire	Palladium (Pd)	7440-05-3		0.002	mg	11561	15
Encapsulation	M-011 Other inorganic materials	65.623	mg	supplier	mold compound	Silica vitreous	60676-86-0		47.904	mg	729988	354844
				supplier	mold compound	Amorphous silica	7631-86-9		5.250	mg	80002	38889
				supplier	mold compound	Epoxy type resin	proprietary		5.578	mg	85001	41319
				supplier	mold compound	Phenol type resin	proprietary		4.594	mg	70006	34030
				supplier	mold compound	Aluminium compound	proprietary		1.969	mg	30005	14585
				supplier	mold compound	Carbon black	1333-86-4		0.328	mg	4998	2430
connections coating	Solder	3.501	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		3.501	mg	1000000	25933