



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 *	2022-01-10
Company Unique ID	NL 008751171B01		
Authorized Representative *	Antonella Lanzafame	Representative Title	AMS Material Declaration 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

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
LSM6DSRTR	77DD*MV8TABD	A	CA2A	2022-01-10
	Amount	UoM	Unit type	ST ECOPACK Grade
	14.0	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
3	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Nickel/Gold (Ni/Au), electrolytic	Copper Alloy	0	

Package Designator	Size	Nbr of instances	Shape	
LGA	2.5 x 3	14	Flat	
Comment	VFLGA2.5X3X.86 14L P.5 L.475X.25			

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	false
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)	true
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Exemption Id.	Description
7c-I	7c-I-Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	
Query	Response
1 - Product(s) meets EU ELV requirement without any exemptions	false
2 - Product(s) meets EU ELV requirements by application of the selected exemption(s)	true
Exemption Id.	Description
0	#N/A

QueryList : California Prop65 list, dated 17th Dec 2021			
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	0.102	aloy	7286
Lead	0.195	passivation	13914
Lead-Borate Glass	0.323	passivation	23071

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014				
Query				Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products				false
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products				false
Hasardous substance				
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE
X	O	O	O	O
Dies				
is Homogeneous Material containing Lead				

QueryList : REACH-17th January 2022				
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 Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Homogeneous Material (mg)	Application - Homogeneous Material	ppm in Homogeneous Material
	#N/A			

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 :	Cobalt, Gold, Tantalum, Tungsten,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	
Query	Response

The product contains adhesives identified under GB 33372	false

Stockholm Convention Persistent Organic Pollutants	
Query	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	false

Material Composition Declaration						Mfr Item Name	77DD*MV8TABD	14.0000		5153304.0	1000000.0					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Dies	M-011 Other inorganic materials	6.900	mg	supplier	die	Silicon(Si)	7440-21-3		6.404	mg	928116	457429				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.019	mg	2754	1357				
				supplier	metallisation	Copper(Cu)	7440-50-8		0.023	mg	3333	1643				
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.013	mg	1884	929				
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.005	mg	725	357				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.007	mg	1014	500				
				supplier	metallisation	Tungsten(W)	7440-33-7		0.003	mg	435	214				
				supplier	metallisation	Zirconium(Zr)	7440-67-7		0.002	mg	290	143				
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.012	mg	1739	857				
				supplier	passivation	Silicon Oxide	7631-86-9		0.089	mg	12899	6357				
					JIG-R & California 65	glass	Lead-Borate Glass	65997-18-4	7c-I-Electrical and elect	0.323	mg	46812	23071			
				Substrate	M-015 Other organic materials	2.968	mg	supplier	laminate	Fiber glass	65997-17-3		0.455	mg	153302	32500
								supplier	laminate	Epoxy resin	61788-97-4		0.096	mg	6857	
								supplier	laminate	Triazine (T)	25722-66-1		0.121	mg	8643	
supplier	laminate	Epoxy resin	223769-10-6						0.051	mg	3643					
supplier	laminate	Calcium carbonate	471-34-1						0.202	mg	14429					
supplier	laminate	Amorphous silica	7631-86-9						0.071	mg	5071					
supplier	laminate	Metal hydroxide	proprietary						0.015	mg	1071					
supplier	laminate	Copper(Cu)	7440-50-8						1.384	mg	98857					
supplier	laminate	Acrylic resin	9003-01-4						0.160	mg	11429					
supplier	laminate	Barium sulfate	7727-43-7						0.068	mg	4857					
supplier	laminate	epoxy resin	85954-11-6						0.059	mg	4214					
supplier	laminate	Talc	14807-96-6						0.041	mg	2929					
supplier	laminate	Aromatic hydrocarbon	64742-94-5						0.018	mg	1286					
supplier	laminate	Methoxymethylethoxy propanol	34590-94-8						0.045	mg	3214					
supplier	laminate	Acetate compound	112-15-2		0.045	mg	3214									
supplier	laminate	DPMA	88917-22-0		0.009	mg	643									
supplier	laminate	Diphenyl-trimethylbenzoyl phosphine oxide	75980-60-8		0.007	mg	500									
	M-006 Nickel and its alloys	laminate	Nickel(Ni)	7440-02-0		0.102	mg	7286								
supplier	laminate	Gold(Au)	7440-57-5		0.019	mg	1357									
Die attach	M-015 Other organic materials	0.170	mg	supplier	tape	Epoxy resin	25068-38-6		0.107	mg	629412	7643				
				supplier	tape	Polypropylene	9003-07-0		0.003	mg	17647	214				
				supplier	tape	epoxy resin	29690-82-2		0.017	mg	100000	1214				
				supplier	tape	Propenoate polymer	proprietary		0.034	mg	200000	2429				
				supplier	tape	Bisphenol A diglycidyl ether	1675-54-3		0.009	mg	52941	643				
Die attach 2		0.168	mg	supplier	tape	Amorphous silica	7631-86-9		0.070	mg	416667	5000				
				supplier	tape	Polyethylen terephthalate	25038-59-9		0.042	mg	250000	3000				
				supplier	tape	Acrylic resin	9003-01-4		0.028	mg	166667	2000				
				supplier	tape	Epoxyde bisphenol A resin	25068-38-6		0.028	mg	166667	2000				
Bonding wire	M-008 Precious metals	0.166	mg	supplier	wire	Gold(Au)	7440-57-5		0.164	mg	987952	11714				
	0			supplier	wire	Palladium(Pd)	7440-05-3		0.002	mg	12048	143				
Encapsulation	M-015 Other organic materials	3.628	mg	supplier	mold compound	Silica vitreous	60676-86-0		3.283	mg	904906	234500				
				supplier	mold compound	Epoxyde bisphenol A resin	25068-38-6		0.091	mg	25083	6500				
				supplier	mold compound	Epoxy resin	proprietary		0.145	mg	39967	10357				
				supplier	mold compound	Phenol Resin	proprietary		0.091	mg	25083	6500				
				supplier	mold compound	Carbon black	1333-86-4		0.018	mg	4961	1286				
									mg							