



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2022-06-07
Company Unique ID	NL 008751171B01		
Authorized Representative *	Floriana SAN BIAGIO	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
0	77HH*MV9FABB	A	P1C7	2022-06-07
Amount	UoM	Unit type	ST ECOPACK Grade	
13.2	mg	Each	ECOPACK® 2	

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	
NAC	Nickel/Gold (Ni/Au), electrolytic	Copper Alloy	0	

Package Designator	Size	Nbr of instances	Shape	
LGA	2.5 x 3	14	Flat	
Comment	A08N VFLGA2.5X3X.86 14L P.5 L.475X.25; MDF is valid for LSM6DSVTR			

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-1	7c-1-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 : California Prop65 list, dated 25th Feb 2022			
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			false
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.095	substrate	7197
Lead	0.170	die (Pb Content in Lead-Borate)	12879
Lead-Borate Glass	0.282	die	21364
Lead Zirconate Titanate (PZT)	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0
Gallium Arsenide	0.000		0

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
Hazardous 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

QueryList : Korea Chemical Control Act_27 Dec 2017 update				
Query				Response
The Product does contain at least one of the substances listed in Chemical Control Act				false

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 in 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	77HH*MV9FABB	13.2010	4999997	1000090						
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	6.084	mg	supplier	die	Silicon(Si)	7440-21-3		5.632	mg	925707	426667				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.011	mg	1808	833				
				supplier	metallisation	Copper(Cu)	7440-50-8		0.040	mg	6575	3030				
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.012	mg	1972	909				
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.008	mg	1315	606				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.004	mg	657	303				
				supplier	metallisation	Tungsten(W)	7440-33-7		0.001	mg	164	76				
				supplier	metallisation	Zirconium(Zr)	7440-67-7		0.002	mg	329	152				
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.012	mg	1972	909				
				supplier	passivation	Silicon Oxide	7831-86-9		0.080	mg	13149	6061				
				JIG-R & California 65	glass	Lead-Borate Glass	65997-18-4	7c-I-Electrical and elect	0.282	mg	46351	21364				
				Substrate	M-015 Other organic materials	2.708	mg	supplier	laminare	Fiber glass	65997-17-3		0.393	mg	145126	29773
								supplier	laminare	Bisphenol F type epoxy resin	9003-36-5		0.219	mg	80871	16591
supplier	laminare	Bismaleimide (B)	105391-33-1						0.133	mg	49114	10076				
supplier	laminare	Triazine (T)	25722-66-1						0.132	mg	48744	10000				
supplier	laminare	Aluminium hydroxide	21645-51-2						0.009	mg	3323	682				
supplier	laminare	Zinc hydroxide	20427-58-1						0.002	mg	739	152				
supplier	laminare	Calcium sulfate	7778-18-9						0.005	mg	1846	379				
SVHC	laminare	BPA	80-05-7						0.001	mg	369	76				
supplier	laminare	Acrylic resin	9003-01-4						0.163	mg	60192	12348				
supplier	laminare	Barium sulfate	7727-43-7						0.069	mg	25480	5227				
supplier	laminare	epoxy resin	85954-11-6						0.060	mg	22157	4545				
supplier	laminare	Talc	14807-96-6						0.041	mg	15140	3106				
supplier	laminare	Aromatic hydrocarbon	64742-94-5						0.018	mg	6647	1364				
supplier	laminare	Methoxymethylethoxy propanol	34590-94-8						0.046	mg	16987	3485				
supplier	laminare	Acetate compound	112-15-2						0.046	mg	16987	3485				
supplier	laminare	DPMA	88917-22-0						0.009	mg	3323	682				
supplier	laminare	Diphenyl-trimethylbenzoyl phosphine oxide	75980-60-8						0.007	mg	2585	530				
M-004 Copper and its alloys	supplier	laminare	Copper(Cu)					7440-50-8		1.243	mg	459010	94167			
M-006 Nickel and its alloys	supplier	laminare	Nickel(Ni)					7440-02-0		0.095	mg	35081	7197			
	supplier	laminare	Gold(Au)	7440-57-5		0.017	mg	6278	1288							
Die attach	M-015 Other organic materials	0.294	mg	supplier	tape	Lintec-Tape-Polyolefin resin-IP	proprietary		0.173	mg	588435	13106				
				supplier	tape	LINTEC-TAPE-Epoxy acrylic resin-IP	Proprietary		0.018	mg	61224	1364				
				supplier	tape	epoxy resin	29690-82-2		0.021	mg	71429	1591				
				supplier	tape	Polyethylene terephthalate	25038-59-9		0.082	mg	278912	6212				
Bonding wire	M-008 Precious metals	0.077	mg	supplier	wire	Gold(Au)	7440-57-5		0.076	mg	987013	5758				
				supplier	wire	Palladium(Pd)	7440-05-3		0.001	mg	12987	76				
Encapsulation	M-015 Other organic materials	4.038	mg	supplier	mold compound	Silica vitreous	60676-86-0		3.654	mg	904903	276818				
				supplier	mold compound	Epoxyde bisphenol A resin	25068-38-6		0.101	mg	25012	7652				
				supplier	mold compound	Epoxy resin	proprietary		0.162	mg	40119	12273				
				supplier	mold compound	Phenol Resin	proprietary		0.101	mg	25012	7652				
				supplier	mold compound	Carbon black	1333-86-4		0.020	mg	4953	1515				
										mg						