



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 *	2019-03-06
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 *	MDG MD CHAMPION	Representative Title	MDG 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
Legal Statement	<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
STM8L151G4Y6TR	H3GD*764CCCY	A	9989	2019-03-06
	Amount	UoM	Unit type	ST ECOPACK Grade
	6.29	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	
Solder ball SAC405 0.3mm	NAC	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
WL CSP	Not Applicable	Nbr of instances	No lead	
Comment	Package : AOAM WL CSP 28L DIE 764 P 0.4 MM 8193006			

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	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 : REACH-15th January 2019				
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	H3GD*764CCY				6000001.0	999980.5
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	4.563	mg	supplier	die	Silicon (Si)	7440-21-3		4.424	mg	969538	703688
				supplier	metallization	Aluminium (Al)	7429-90-5		0.012	mg	2630	1909
				supplier	metallization	Copper (Cu)	7440-50-8		0.040	mg	8766	6362
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.005	mg	1096	795
				supplier	metallization	Titanium (Ti)	7440-32-6		0.006	mg	1315	954
				supplier	Passivation	Silicon Nitride	12033-89-5		0.011	mg	2411	1750
				supplier	Passivation	Silicon Oxide	7631-86-9		0.065	mg	14245	10339
RDL-Al/Cu Target	M-011 Other inorganic materials	0.006	mg	Supplier	Metals	Aluminum	7429-90-5		0.005	mg	750000	743
				Supplier	Metals	Copper	7440-50-8		0.002	mg	250000	248
UBM Barrier-NiV	M-011 Other inorganic materials	0.002	mg	Supplier	Metals	Nickel	7440-02-0		0.002	mg	915000	352
				Supplier	Metals	Vanadium	7440-62-2		0.000	mg	85000	33
UBM/RDL adhesive -Ti Target	M-011 Other inorganic materials	0.014	mg	Supplier	Metals	Titanium	7440-32-6		0.014	mg	1000000	2288
UBM-Cu Target	M-011 Other inorganic materials	0.006	mg	Supplier	Metals	Copper	7440-50-8		0.006	mg	1000000	888
Solder Ball SAC405 0.25mm	Solder	1.695	mg	Supplier	Metals	Tin	7440-31-5		1.634	mg	963978	259920
				Supplier	Metals	Silver	7440-22-4		0.034	mg	20294	5472
				Supplier	Metals	Copper	7440-50-8		0.027	mg	15728	4241