



Material declaration form

General information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		

*: Required Field

Supplier information			
Company name*	STMicroelectronics	Response date*	2022-02-17
Authorized representative*	giovanni giacopello	Representative title	ADG 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
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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
MLPF-WB-04D3	LD6(*MLPFWB4	A	3068	2022-02-17
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	1.82	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			

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
Not Applicable	Not Applicable	,		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
SACN125	Not Applicable	Copper Alloy	DM00993647	
Package designator	Package Size	Number of instances	Shape	
Not Applicable	1x1.6x0.4	Not Applicable	Not Applicable	
Comment	CSPG 0.4			

QueryList : RoHS Directive 2011/65/EU - 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		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)		true
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		Response
1 - Product(s) meets EU ELV requirement without any exemptions		true
2 - Product(s) meets EU ELV requirements by application of the selected exemption(s)		false
Exemption Id.	Description	
,		
,		
,		

QueryList : California Prop65 list, dated 11th Aug 2023			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	0.010	die	5495

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014		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

QueryList : REACH-14th June 2023				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		Response
The Product does contain at least one of the substances listed in Chemical Control Act		false



QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	false
QueryList:Stockholm Convention Persistent Organic Pollutants	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true
QueryList:EUSRR Directive	Response
Product contains hazardous materials listed in EUSRR Annex II	False
PFAS/PTFE Declaration	Response
Product contains Per- and Polyfluorinated Substance	False
BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True
Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True
Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True



Material composition declaration : note : Substance present with less 0.001mg will not be declared in this document						Manufacturing item name	LD6('MLPFWB4					
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	1.019	mg	supplier	metallisation	Aluminium(Al)	7429-90-5		0.007	mg	6869	3846
				supplier	metallisation	Copper(Cu)	7440-50-8		0.146	mg	143276	80220
				supplier	metallisation	Gold(Au)	7440-57-5		0.005	mg	4907	2747
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.010	mg	9814	5495
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.008	mg	7851	4396
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.002	mg	1963	1099
				supplier	passivation	Silicon Oxide	7631-86-9		0.005	mg	4907	2747
				supplier	glass	Borosilicate glass	65997-17-3		0.812	mg	796860	446154
				supplier	polymer coating	Polymer resist - Benzocyclobutene (BCB)	694-87-1		0.024	mg	23553	13187
				supplier	resin	Silica vitreous	60676-86-0		0.087	mg	486034	47802
Underfill	M-015 Other organic materials	0.179	mg	supplier	resin	Epoxy type resin	proprietary		0.031	mg	173184	17033
				supplier	resin	Acrylic type polymer	proprietary		0.031	mg	173184	17033
				supplier	resin	Bisphenol A diglycidyl ether	25036-25-3		0.011	mg	61453	6044
				supplier	resin	Carbon black	1333-86-4		0.001	mg	5587	549
				supplier	resin	Iron compound	7439-89-6		0.009	mg	50279	4945
				supplier	resin	Zinc compound	7440-66-6		0.009	mg	50279	4945
				supplier	solder alloy	Tin(Sn)	7440-31-5		0.611	mg	982315	335714
Solder balls	Solder	0.622	mg	supplier	solder alloy	Silver(Ag)	7440-22-4		0.008	mg	12862	4396
				supplier	solder alloy	Copper(Cu)	7440-50-8		0.003	mg	4823	1648