



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*	2024-09-11
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*	giovanni giacopello	Representative title	ADGMaterial 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*	Legal declaration*	Standard
true		

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	Manufacturing site	date
L9965P-FN-TR	B0E5*UR6WABP	A	P1C7	2024-09-11
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	69.00	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 temperature	Number of reflow cycles		
3	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM01106502	
Package designator	Package size	Number of instances	Shape	
QFN	5x5x0.9	36	No lead	
Comment	VFQFN 5X5X0.9 32+4L WETT. FLANKS. MDF valid for CPs: L9965P-FN,L9965P-FN-TR			

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)		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 : ELV directive : 2000/53/EC amended 2020/363_March 2020		Response
1 - Product(s) meets EU ELV requirements without any exemptions		True
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)		False
Exemption Id.	Description	

QueryList : California Prop65 list, dated 29th December 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	0.049	die	710

QueryList : REACH-27th June 2024				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 Embedded article nor Homogeneous Material above the limits per the definition within REACH				True
CategoryLevel_Name	CategoryLevel_Threshold	Amount in embedded article / Homogeneous material (mg)	Application - article / Homogeneous material	ppm in article /Homogeneous material



QueryList : Responsible metals sourcing	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, Tin, Tungsten,

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 : 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	True

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

QueryList : EUSR Directive	Response
Product contains hazardous materials listed in EUSR Annex II	False

PFAS/PTFE Declaration	Response
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene,Thiophenium, Triphenylsulfonium nonaflate, Trifluoroacetic anhydride	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						Mfr Item Name	BOE5UR6WABP					
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	5.414	mg	supplier	die	Silicon(Si)	7440-21-3		4.817	mg	889730	69810
				supplier	metallisation	Copper(Cu)	7440-50-8		0.440	mg	81271	6377
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	185	14
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.049	mg	9051	710
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.016	mg	2955	232
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	185	14
				supplier	metallisation	Tungsten(W)	7440-33-7		0.020	mg	3694	290
				supplier	passivation	Silicon oxide	7631-86-9		0.070	mg	12929	1014
				Leadframe	M-004 Copper and its alloys	32.540	mg	supplier	alloy	Copper(Cu)	7440-50-8	
supplier	alloy	Iron (Fe)	7439-89-6						0.543	mg	16687	7870
supplier	alloy	Iron phosphide	26508-33-8						0.126	mg	3872	1826
supplier	alloy	Zinc(Zn)	7440-66-6						0.040	mg	1229	580
supplier	metallization	Silver (Ag)	7440-22-4						0.998	mg	30670	14464
Die attach	M-011 Other inorganic materials	0.859	mg	supplier	glue	Silver(Ag)	7440-22-4		0.726	mg	845169	10522
				supplier	glue	Bismaleimide resin	proprietary		0.117	mg	136205	1696
				supplier	glue	Additives	proprietary		0.016	mg	18626	232
Bonding wires	M-004 Copper and its alloys	0.195	mg	supplier	wire	Copper(Cu)	7440-50-8		0.195	mg	1000000	2826
Encapsulation	M-011 Other inorganic materials	29.747	mg	supplier	mold compound	Silica vitreous	60676-86-0		26.177	mg	879988	379377
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		1.487	mg	49988	21551
				supplier	mold compound	Phenolic resin	205830-20-2		1.160	mg	38996	16812
				supplier	mold compound	Epoxy type resin	proprietary		0.595	mg	20002	8623
				supplier	mold compound	Carbon black	1333-86-4		0.060	mg	2017	870
				supplier	mold compound	other	proprietary		0.268	mg	9009	3884
Connections coating	Solder	0.245	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.245	mg	1000000	3551