



Material declaration form

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

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2024-07-05
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*	gregorio duro	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*	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				
Mfr item number	Mfr item name	Version	Manufacturing site	date
L99DZ320TR	NT9J*UR5RBAA	A	959	2024-07-05
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	260.00	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	DM01056014	
Package designator	Package size	Number of instances	Shape	
QFP	10.00x10.00x1.40	64	Gull wing	
Comment	LQFP 64 10x10x1.4 1.0 ExPad Down			

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 17th Nov 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	0.116	die	446

QueryList : REACH-23rd January 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	False

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
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	NT9JUR5RBAA		260.0000		7000000.0	1000000.0
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	16.773	mg	supplier	die	Silicon(Si)	7440-21-3		15.194	mg	905860	58438
				supplier	metallisation	Copper(Cu)	7440-50-8		1.035	mg	61706	3981
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	60	4
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.116	mg	6916	446
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.037	mg	2206	142
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	60	4
				supplier	metallisation	Tungsten(W)	7440-33-7		0.048	mg	2862	185
				supplier	passivation	Silicon oxide	7631-86-9		0.166	mg	9897	638
				supplier	polymer coating	polyimide	proprietary		0.175	mg	10433	673
				supplier	alloy	Copper(Cu)	7440-50-8		109.104	mg	974500	419631
Leadframe	M-004 Copper and its alloys	111.959	mg	supplier	alloy	Iron(Fe)	7439-89-6		2.566	mg	22919	9869
				supplier	alloy	Iron phosphide	1310-43-6		0.155	mg	1384	596
				supplier	alloy	Zinc(Zn)	7440-66-6		0.134	mg	1197	515
				supplier	glue	Silver(Ag)	7440-22-4		1.755	mg	891768	6750
Die attach	M-011 Other inorganic materials	1.968	mg	supplier	glue	Isobornyl Methacrylate	7534-94-3		0.148	mg	75203	569
				supplier	glue	Bismaleimide resin	proprietary		0.059	mg	29980	227
				supplier	glue	Epoxy-cyclohexylethytrimethoxysilane	3388-04-3		0.006	mg	3049	23
				supplier	wire	Copper(Cu)	7440-50-8		2.439	mg	1000000	9381
Bonding wires	M-004 Copper and its alloys	2.439	mg	supplier	wire	Copper(Cu)	7440-50-8		1.838	mg	1000000	7069
Bonding wires 2	M-004 Copper and its alloys	1.838	mg	supplier	mold compound	Silica vitreous	60676-86-0		42.022	mg	814506	161623
Encapsulation	M-011 Other inorganic materials	51.592	mg	supplier	mold compound	Silicon oxide	7631-86-9		3.869	mg	74992	14881
				supplier	mold compound	Epoxy type resin	proprietary		3.869	mg	74992	14881
				supplier	mold compound	Phenol type resin	proprietary		1.548	mg	30005	5954
				supplier	mold compound	Carbon black	1333-86-4		0.284	mg	5505	1092
Connections coating	Solder	73.431	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		73.431	mg	1000000	282427