



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*	2024-07-10
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*	Antonella Lanzafame	Representative title	AMSMaterial 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
L9800-TR	B08A*UR5WABP	A	Z7GA	2024-07-10
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	42	mg	Each	ECOPACK® 3
Identity	Authority			
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

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), immersion	Copper Alloy		0

Package designator	Package size	Number of instances	Shape	
qfn	4 x 4	24	Flat	
Comment				
Comment	B08A TFQFN 4X4X0.9 24L WETT> FLANKS			

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	0.038	alloy	905

QueryList :Customer	Response
QUERY	Response

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014		Response		
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
0	0	0	0	0

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
	0			
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 :	Tantalum, 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
QUERY	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

EU Batteries Regulation	Response
The product contains battery compliant to EU Batteries Regulation 2023/1542	TRUE



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	B08A*UR5WABP		42.0000		6000000.0	999999.0
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	2.021	mg	supplier	die	Silicon(Si)	7440-21-3		1.857	mg	918852	44214
				supplier	metallisation	Copper(Cu)	7440-50-8		0.053	mg	26225	1262
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.038	mg	18803	905
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.006	mg	2969	143
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.003	mg	1484	71
				supplier	metallisation	Tungsten(W)	7440-33-7		0.004	mg	1979	95
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.008	mg	3958	190
				supplier	passivation	Silicon oxide	7631-86-9		0.034	mg	16823	810
				supplier	polymer coating	polyimide	proprietary		0.018	mg	8906	429
				Leadframe	M-004 Copper and its alloys	18.849	mg	supplier	alloy	Cu	7440-50-8	
supplier	alloy	Cr	7440-47-3						0.049	mg	2600	1167
supplier	alloy	Sn	7440-31-5						0.047	mg	2494	1119
supplier	alloy	Zn	7440-66-6						0.038	mg	2016	905
supplier	alloy	Silver	7440-22-4						0.377	mg	20001	8976
supplier	alloy	Silver	7440-22-4						0.650	mg	820000	15471
Die attach	M-011 Other inorganic materials	0.792	mg	supplier	glue	(Octahydro-4,7-methano-1 H-indenediy)bis(meth	42594-17-2		0.048	mg	60000	1132
				supplier	glue	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methaci	7534-94-3		0.048	mg	60000	1132
				supplier	glue	Isobornyl acrylate	5888-33-5		0.048	mg	60000	1132
				supplier	wire	Copper	7440-50-8		0.330	mg	1000000	7861
Encapsulation	M-011 Other inorganic materials	18.120	mg	supplier	mold compound	Epoxy Resin	Proprietary		0.550	mg	30331	13086
				supplier	mold compound	Phenol Resin	Proprietary		0.550	mg	30331	13086
				supplier	mold compound	Silica (Amorphous)A	60676-86-0		13.724	mg	757352	326751
				supplier	mold compound	Silica (Amorphous)B	7631-86-9		3.276	mg	180773	77992
				supplier	mold compound	Carbon Black	1333-86-4		0.022	mg	1213	523
Connections coating	Solder	1.887	mg	supplier	solder alloy	Sn	7440-31-5		1.887	mg	1000000	44928