



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*	2024-09-20
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*	Antoonella 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
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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
L9965C-TR	NAES*UR1CBAP	A	MU1A	2024-09-20
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	140	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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		0

Package designator	Package size	Number of instances	Shape	
QFP	7 x 7	48	Gull wing	
Comment				
Comment	ES TQFP 48 7x7x1.0 1.0 Exp Pad 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	0.151	alloy	1079	

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-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	
,	#N/A				
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, Tantalum, 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

QueryList:Stockholm Convention Persistent Organic Pollutants (POP)	Response
Product is compliant with Annex A, B and C of Stockholm Convention Persistent Organic Pollutants	true

QueryList: EU Ship Recycling Regulation No. 1257/2013	Response
Product contains hazardous materials listed in Annex II of EU Ship Recycling Regulation No.1257/2013 and 2009/16/EC Directive	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	NAES*UR1CBAP		140.0000		5999999.0	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	10.518	mg	supplier	die	Silicon(Si)	7440-21-3		9.864	mg	937821	70457
				supplier	metallisation	Copper(Cu)	7440-50-8		0.211	mg	20061	1507
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	95	7
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.151	mg	14356	1079
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.024	mg	2282	171
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.011	mg	1046	79
				supplier	metallisation	Tungsten(W)	7440-33-7		0.017	mg	1616	121
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.033	mg	3137	236
				supplier	passivation	Silicon oxide	7631-86-9		0.134	mg	12740	957
				supplier	polymer coating	polyimide	proprietary		0.072	mg	6845	514
Leadframe	M-004 Copper and its alloys	62.892	mg	supplier	alloy	Copper(Cu)	7440-50-8		61.287	mg	974480	437784
				supplier	alloy	Iron(Fe)	7439-89-6		1.442	mg	22928	10300
				supplier	alloy	Iron phosphide	1310-43-6		0.087	mg	1383	621
				supplier	alloy	Zinc(Zn)	7440-66-6		0.076	mg	1208	543
Die attach	M-011 Other inorganic materials	1.320	mg	supplier	glue	Silver(Ag)	7440-22-4	0	1.177	mg	891667	8407
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.092	mg	69697	657
				supplier	glue	Bismaleimide resin	proprietary		0.040	mg	30303	286
				supplier	glue	Epoxy-cyclohexylethyltrimethoxysilane	3388-04-3		0.011	mg	8333	79
Bonding wires	M-004 Copper and its alloys	0.641	mg	supplier	wire	Copper(Cu)	7440-50-8		0.641	mg	1000000	4579
				supplier	wire	Copper(Cu)	7440-50-8		0.641	mg	1000000	4579
Encapsulation	M-011 Other inorganic materials	60.993	mg	supplier	mold compound	Silica vitreous	60676-86-0		49.677	mg	814471	354836
				supplier	mold compound	Silicon oxide	7631-86-9		4.575	mg	75009	32679
				supplier	mold compound	Epoxy type resin	proprietary		4.575	mg	75009	32679
				supplier	mold compound	Phenol type resin	proprietary		1.830	mg	30003	13071
				supplier	mold compound	Carbon black	1333-86-4		0.336	mg	5509	2400
Connections coating	Solder	3.636	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		3.636	mg	1000000	25971