



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*	2025-03-11
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*	Antonella Lanzafame	Representative title	APMSMaterial 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
L98GD8TR	AV91*UR53BAT	A	MU1A	2025-03-11
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	260.00	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	10x10	64	gull wing
Comment			
Comment	9I TQFP 64 10x10x1.0 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 3rd January 2025	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	0.160	alloy	615

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
O	O	O	O	O

QueryList : REACH-21st January 2025	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, Gold, 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	AV91*UR53BAT		260.0000		5000002.0	999998.0
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	10.981	mg	supplier	die	Silicon(Si)	7440-21-3		10.478	mg	954194	40300	
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.078	mg	7103	300	
				supplier	metallisation	Copper(Cu)	7440-50-8		0.013	mg	1184	50	
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	91	4	
				supplier	metallisation	Gold(Au)	7440-57-5		0.007	mg	637	27	
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.160	mg	14571	615	
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.025	mg	2277	96	
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.004	mg	364	15	
				supplier	metallisation	Tungsten(W)	7440-33-7		0.008	mg	729	31	
				supplier	passivation	Silicon oxide	7631-86-9		0.207	mg	18851	796	
Leadframe	M-004 Copper and its alloys	113.672	mg	supplier	alloy	Copper(Cu)	7440-50-8		110.700	mg	973855	425769	
				supplier	alloy	Iron(Fe)	7439-89-6		2.604	mg	22908	10015	
				supplier	alloy	Iron phosphide	1310-43-6		0.157	mg	1381	604	
				supplier	alloy	Zinc(Zn)	7440-66-6		0.136	mg	1196	523	
				supplier	metallization	Silver(Ag)	7440-22-4		0.075	mg	660	288	
Die attach	M-011 Other inorganic materials	1.380	mg	supplier	glue	Silver(Ag)	7440-22-4		1.166	mg	844928	4485	
				supplier	glue	Bismaleimide re	35325-39-4		0.188	mg	136232	723	
				supplier	glue	Additives	proprietary		0.026	mg	18841	100	
Bonding wires	M-004 Copper and its alloys	3.020	mg	supplier	wire	Copper(Cu)	7440-50-8		3.020	mg	1000000	11615	
Encapsulation	M-011 Other inorganic materials	130.947	mg	supplier	mold compound	Silica vitreous	60676-86-0		106.657	mg	814505	410219	
				supplier	mold compound	Silicon oxide	7631-86-9		9.821	mg	75000	37773	
				supplier	mold compound	Epoxy type res	proprietary		9.821	mg	75000	37773	
				supplier	mold compound	Phenol type res	proprietary		3.928	mg	29997	15108	
				supplier	mold compound	Carbon black	1333-86-4		0.720	mg	5498	2769	