



## 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*	2025-02-06
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*	Floriana SAN BIAGIO	Representative title	APMS Material Declaration champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**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
	RRWB*UBGRAC1	B	999L-Z9LA	2025-02-06
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	16	mg	Each	ECOPACK® 3
<b>Identity</b>	<b>Authority</b>			
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		
1	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy		Comment
Not Applicable	Tin (Sn), matte	Copper Alloy		0

Package designator	Package size	Number of instances	Shape	
SOT	2.9x1.63	6	gull wing	
Comment				
Comment	WB SOT 23 - 6L; MDF is valid for DCP3601CMR			

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	0.009	alloy	563

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-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 :	Gold, 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	True
The material present in the product is:	Lead

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	RRWB*UBGRAC1	15.9999		6000000.0	999997.0	
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	0.736	mg	supplier	die	Silicon(Si)	7440-21-3		0.652	mg	885870	40750
				supplier	metallisation	Aluminium(AI)	7429-90-5		0.002	mg	2717	125
				supplier	metallisation	Chromium(Cr)	7440-47-3		0.001	mg	1359	63
				supplier	metallisation	Copper(Cu)	7440-50-8		0.054	mg	73370	3375
				supplier	metallisation	Gold(Au)	7440-57-5		0.001	mg	1359	63
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.009	mg	12228	563
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.002	mg	2717	125
				supplier	metallisation	Tungsten(W)	7440-33-7		0.003	mg	4076	188
				supplier	passivation	Silicon oxide	7631-86-9		0.012	mg	16304	750
				Leadframe	M-004 Copper and its alloys	4.960	mg	supplier	alloy	Copper (Cu)	7440-50-8	
supplier	alloy	Iron (Fe)	7439-89-6						0.112	mg	22581	7000
supplier	alloy	Phosphorus (P)	7723-14-0						0.007	mg	1411	438
supplier	alloy	Zinc(Zn)	7440-66-6						0.005	mg	1008	313
supplier	alloy	Silver(Ag)	7440-22-4						0.030	mg	6048	1875
supplier	glue	Silver(Ag)	7440-22-4						0.801	mg	790000	50066
supplier	glue	Epoxy resin	29690-82-2						0.112	mg	110000	6971
Die attach	M-015 Other organic materials	1.014	mg	supplier	glue	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		0.081	mg	80000	5070
				supplier	glue	Aromatic polyamine	proprietary		0.020	mg	20000	1268
				supplier	wire	Copper(Cu)	7440-50-8		0.970	mg	970000	60625
				supplier	wire	Palladium(Pd)	7440-05-3		0.030	mg	30000	1875
Encapsulation	M-015 Other organic materials	7.290	mg	supplier	mold compound	Epoxy Resin 1	29690-82-2		0.321	mg	44038	20065
				supplier	mold compound	Epoxy Resin 2	proprietary		0.100	mg	13764	6271
				supplier	mold compound	Phenolic resin	25068-38-6		0.321	mg	44038	20065
				supplier	mold compound	Organic Phosphorus compound	proprietary		0.040	mg	5505	2508
				supplier	mold compound	Carbon black	1333-86-4		0.016	mg	2202	1003
				supplier	mold compound	Amorphous silica1	60676-86-0		6.251	mg	857424	390664
Connections coating	Solder	1.000	mg	supplier	mold compound	Amorphous silica2	7631-86-9		0.241	mg	33029	15049
				supplier	solder alloy	Tin(Sn)	7440-31-5		1.000	mg	1000000	62494