



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*	2025-05-07
Authorized representative*	Antonella Lanzafame	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 : http://www.st.com/web/en/support/support.html		

Uncertainty statement

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Legal statement

Supplier acceptance *	Legal declaration*	Standard
true		

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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
STWLC89JRO	2E(5*US0CBD1	A	Z9XA	2025-05-07
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	16.500	mg	Each	ECOPACK® 3
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	
Tin/Silver/Copper (SAC405)	Tin/Silver/Copper (Sn/Ag/Cu)	Copper Alloy	0	
Package designator	Package Size	Number of instances	Shape	
WLB	2.8 x 4	90	Bulk solder	
Comment	WLCSP54 2.8X4.0X0.471MM			

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
QUERY		Response
1 - Product(s) meets EU ELV requirement without any exemptions		true
2 - Product(s) meets EU ELV 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			true
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			false
Substance	amount in product (mg)	Application	ppm in product
Lead	0.001	solder balls	61

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

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 Homogeneous Material above the limits per the definition within REACH					true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in homogeneous material (mg)	Application - homogeneous material	ppm in homogeneous material	

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 : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true

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

Other Fluorinated substance	Response
QUERY	Response
The product is containing fluorinated substance.	False
Substance Name, CAS	
Polytetrafluoroethylene, CAS 9002-84-0	False
Thiophenium CAS, 209482-18-8	False
Triphenylsulfonium nonaflate, CAS 144317-44-2	False
Trifluoroacetic anhydrid,e CAS 407-25-0	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						Manufacturing Item name	2E(5*US0CBD1		16.5000		2000001.0	1000002.0
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	10.348	mg	supplier	die	Silicon(Si)	7440-21-3		9.301	mg	898821	563697
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.020	mg	1933	1212
				supplier	metallisation	Copper(Cu)	7440-50-8		0.217	mg	20970	13152
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.001	mg	97	61
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.014	mg	1353	848
				supplier	metallisation	Tungsten(W)	7440-33-7		0.002	mg	193	121
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.023	mg	2223	1394
				supplier	passivation	Silicon Oxide	7631-86-9		0.184	mg	17781	11152
				supplier	polymer coating	Proprietary Material-Other Epoxy resins	25038-59-9		0.381	mg	36819	23091
				supplier	polymer coating	Proprietary Material-Other Acrylic resins	Proprietary		0.114	mg	11017	6909
				supplier	polymer coating	Carbon black	Proprietary		0.044	mg	4252	2667
				supplier	polymer coating	chloromethyl-oxirane	Proprietary		0.044	mg	4252	2667
				supplier	polymer coating	Bisphenol A diglycidyl ether polymer	1333-86-4		0.003	mg	290	182
				Solder balls	Solder	6.152	mg	supplier	solder alloy	Tin(Sn)	7440-31-5	
supplier	solder alloy	Silver(Ag)	7440-22-4						0.210	mg	34135	12727
supplier	solder alloy	Copper(Cu)	7440-50-8						0.033	mg	5364	2000