



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*	2024-06-05
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*	giovanni giacopello	Representative title	ADGMaterial 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
ESDA5WY	HJW9*6PHBIP4	A	9955	2024-06-05
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	6	mg	Each	ECOPACK® 2
Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)			

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, annealed	Alloy 42	DM00944178	
Package designator	Package size	Number of instances	Shape	
DSO	2.00x1.26x0.93	3	Gull wing	
Comment	SOT 323 - 3 LEADS			

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	0.772	die - leadframe	128667

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
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, Tin,

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
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	HJW9*6PHBIP4					
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	0.683	mg	supplier	die	Silicon(Si)	7440-21-3		0.671	mg	982432	111833
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.003	mg	4392	500
				supplier	metallisation	Copper(Cu)	7440-50-8		0.003	mg	4392	500
				supplier	metallisation	Gold(Au)	7440-57-5		0.001	mg	1464	167
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.003	mg	4392	500
				supplier	passivation	Silicon oxide	7631-86-9		0.002	mg	2928	333
Leadframe	M-002 Other ferrous alloys, non-stainless steels	2.025	mg	supplier	alloy	Iron(Fe)	7439-89-6		1.079	mg	532840	179833
				supplier	alloy	Nickel(Ni)	7440-02-0		0.769	mg	379753	128167
				supplier	alloy	Manganese(Mn)	7439-96-5		0.010	mg	4938	1667
				supplier	alloy	Cobalt(Co)	7440-48-4		0.009	mg	4444	1500
				supplier	metallization	Silver (Ag)	7440-22-4		0.158	mg	78025	26333
				supplier	tape	Propenenitrile polymer	68610-41-3		0.011	mg	687500	1833
Die attach	M-011 Other inorganic materials	0.016	mg	supplier	tape	Poly((O-Cresyl Glycidyl ether)-co-Formaldehyde	37382-79-9		0.004	mg	250000	667
				supplier	tape	Siliconized silica	67762-90-7		0.001	mg	62500	167
				supplier	wire	Copper(Cu)	7440-50-8		0.006	mg	1000000	1000
Bonding wires	M-004 Copper and its alloys	0.006	mg	supplier	wire	Copper(Cu)	7440-50-8		0.006	mg	1000000	1000
Encapsulation	M-011 Other inorganic materials	3.016	mg	supplier	mold compound	Silica vitreous	60676-86-0		2.573	mg	853118	428833
				supplier	mold compound	Epoxy Cresol Novolac	29690-82-2		0.166	mg	55040	27667
				supplier	mold compound	Phenol Resin	26834-02-6		0.151	mg	50066	25167
				supplier	mold compound	Tetrakis(2,6-dimethylphenyl) 1,3-phenylene bisph	139189-30-3		0.075	mg	24867	12500
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.045	mg	14920	7500
				supplier	mold compound	Carbon black	1333-86-4		0.006	mg	1989	1000
Connections coating	Solder	0.254	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.254	mg	1000000	42333