



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*	2023-11-20
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
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
TSC201IYDT	3DO7*US5S3AY	A	BO2A	2023-11-20
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	80	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		
1	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy		Comment
Not Applicable	Tin (Sn), matte	Copper Alloy		,

Package designator	Package size	Number of instances	Shape	
DSO	6 x 4.9	8	Gull wing	
Comment				
Comment	O7 SO 08 .15 JEDEC			

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 11th Aug 2023				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	

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-14th June 2023					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 :	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	true
All the adhesive impacted complies with GB 33372	true

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	TRUE

PFAS/PTFE Restriction	Response
Product contains Per- and Polyfluorinated Substance	False

BPA Restriction	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	3D07*US533AY		80.0000		6000193.0	1000007.0
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	1.586	mg	supplier	die	Silicon(Si)	7440-21-3		1.510	mg	952261	18875
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.015	mg	9460	188
				supplier	metallisation	Copper(Cu)	7440-50-8		0.003	mg	1892	38
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	631	13
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.004	mg	2523	50
				supplier	passivation	Silicon oxide	7631-86-9		0.037	mg	23334	463
				supplier	polymer coating	polyimide	proprietary		0.016	mg	10090	200
				supplier	alloy	Copper(Cu)	7440-50-8		29.125	mg	972552	364063
Leadframe	M-004 Copper and its alloys	29.947	mg	supplier	alloy	Iron(Fe)	7439-89-6		0.685	mg	22874	8563
				supplier	alloy	Iron phosphide	1310-43-6		0.041	mg	1369	513
				supplier	alloy	Zinc(Zn)	7440-66-6		0.036	mg	1202	450
				supplier	alloy	Silver(Ag)	7440-22-4		0.060	mg	2004	750
				supplier	glue	Silver(Ag)	7440-22-4		0.198	mg	880000	2475
Die attach	M-011 Other inorganic materials	0.225	mg	supplier	glue	Isobornyl Methacrylate	7534-94-3		0.011	mg	48889	138
				supplier	glue	Isobornyl acrylate	5888-33-5		0.011	mg	48889	138
				supplier	glue	Methyl acrylate polymer	87320-05-6		0.005	mg	22222	63
				supplier	wire	Gold(Au)	7440-57-5		0.115	mg	1000000	1438
Bonding wires	M-008 Precious metals	0.115	mg	supplier	wire	Gold(Au)	7440-57-5		0.115	mg	1000000	1438
				supplier	silica	Silica vitreous	60676-86-0		33.945	mg	716003	424313
Encapsulation	M-011 Other inorganic materials	47.409	mg	supplier	silica	Silicon oxide	7631-86-9		7.111	mg	149993	88888
				supplier	silica	Silicon oxide	7631-86-9		7.111	mg	149993	88888
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		3.556	mg	75007	44450
				supplier	mold compound	Phenol resin	26834-02-6		2.370	mg	49991	29625
				supplier	mold compound	Carbon black	1333-86-4		0.237	mg	4999	2963
				supplier	mold compound	Bismuth compound	7440-69-9		0.190	mg	4008	2375
Connections coating	Solder	0.718	mg	supplier	solder alloy	Tin(Sn)	7440-31-5		0.718	mg	1000000	8975