



## 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*	2024-12-03
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 : <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
SCTHS300N75G3AG	TGCG*BRGNAV2	A	SH1A	2024-12-03
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	8050	mg	Each	ECOPACK® 2
<b>Identity</b>	<b>Authority</b>			
Comment	0			

Manufacturing information			
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	
Not Applicable	Not Applicable	,	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Not Applicable	0	Copper Alloy	0

Package designator	Package size	Number of instances	Shape
tho	18.8x28	4	Mixed
Comment			
Comment	B0CG STPAK		

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	false
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)	true
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	false
<b>Exemption Id.</b>	<b>Description</b>

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
<b>Exemption Id.</b>	<b>Description</b>

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		
<b>Substance</b>	<b>amount in product (mg)</b>	<b>Application</b>	<b>ppm in product</b>
Nickel	0.865	alloy	107

QueryList :Customer	Response
<b>QUERY</b>	<b>Response</b>

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014	Response			
<b>QUERY</b>	<b>Response</b>			
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	true			
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			
<b>Hazardous substance</b>				
<b>Lead (Pb)</b>	<b>Cadmium (Cd)</b>	<b>Mercury (Hg)</b>	<b>Hexavalent Chromium (Cr VI)</b>	<b>PBB &amp; PBDE</b>
X	O	O	O	O

QueryList : REACH-27th June 2024	Response			
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH	false			
<b>CategoryLevel_Name</b>	<b>CategoryLevel_Threshold</b>	<b>amount in product (mg)</b>	<b>Application</b>	<b>ppm in product</b>
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	false			
<b>CategoryLevel_Name</b>	<b>CategoryLevel_Threshold</b>	<b>Amount in embedded article / Homogeneous material (mg)</b>	<b>Application - article / Homogeneous material</b>	<b>ppm in article /Homogeneous material</b>



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 :	<b>Tin,</b>

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	TGCG*BRGNAVZ		8050.0000		7000000.0	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	14.762	mg	supplier	die	Silicon(Si)	7440-21-3		0.060	mg	4064	7
	M-011 Other inorganic materials			California 65	die	Silicium carbide	409-21-2		13.838	mg	937407	1719
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.252	mg	17071	31
				supplier	metallisation	Copper(Cu)	7440-50-8		0.034	mg	2303	4
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.216	mg	14632	27
				supplier	metallisation	Silver(Ag)	7440-22-4		0.222	mg	15039	28
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.027	mg	1829	3
				supplier	metallisation	Vanadium(V)	7440-62-2		0.007	mg	474	1
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.040	mg	2710	5
				supplier	passivation	Silicon oxide	7631-86-9		0.066	mg	4471	8
Leadframe	M-004 Copper and its alloys	1890.251	mg	supplier	alloy	Copper(Cu)	7440-50-8		1885.591	mg	997535	234235
				supplier	alloy	Iron phosphide	26508-33-8		1.586	mg	839	197
				supplier	alloy	Iron(Fe)	7439-89-6		0.869	mg	460	108
				supplier	metallization	Silver(Ag)	7440-22-4		2.205	mg	1167	274
Soft solder	Solder	8.421	mg	supplier	SVHC	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	8.042	mg	954993	999
				supplier	solder	Silver(Ag)	7440-22-4		0.211	mg	25056	26
				supplier	solder	Tin(Sn)	7440-31-5		0.168	mg	19950	21
Bonding wires	M-003 Aluminum and its alloys	0.905	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.905	mg	1000000	112
Encapsulation	M-011 Other inorganic materials	1994.006	mg	supplier	mold compound	Silica vitreous	60676-86-0		1495.504	mg	750000	185777
				supplier	mold compound	Silica	7631-86-9		199.401	mg	100000	24770
				supplier	mold compound	Epoxy resin	proprietary		199.401	mg	100000	24770
				supplier	mold compound	Phenol resin	proprietary		99.700	mg	50000	12385
solder paste	Solder	8.655	mg	supplier	solder	Silver(Ag)	7440-22-4		6.924	mg	800000	860
				supplier	solder	Nickel(Ni)	7440-02-0		0.649	mg	74986	81
				supplier	solder	other	proprietary		1.082	mg	125014	134
Ceramic package base	M-010 Ceramics / glass	4133.000	mg	supplier	ceramic	Ceramic Si3N4	12033-89-5		312.992	mg	75730	38881
				supplier	0	Silver	7440-22-4		3.017	mg	730	375
				supplier	0	Copper	7440-50-8		3754.996	mg	908540	466459
				supplier	0	Brazing paste	Proprietary		61.995	mg	15000	7701