



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D <i>* : Required Field</i>

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2019-02-04
Company Unique ID	NL 008751171B01		
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	ADG MD 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

Legal Statement

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	Mfr Site	Date
STPS3H100U	HNZJ*Z26P81V	A	9941	2019-02-04
	Amount	UoM	Unit type	ST ECOPACK Grade
	107	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 Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	4.50X2.16X3.68	2	J bend	
Comment	Package: SMB CLIP (SOD 6 NEW)			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 2015	
Query	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
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	FALSE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	TRUE
Exemption Id.	Description
8e	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 26th October 2018			
Query			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	0.01	Die	103
Lead	2.34	Soft solder	21888

QueryList : REACH-15th January 2019				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	2.34	Soft solder	21888
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
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
Lead	1000 ppm	2.34	Soft solder	924961

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	HNZJ*Z26P81V					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	1.002	mg	supplier	die	Silicon (Si)	7440-21-3		0.971	mg	969062	9075
				supplier	metallization	Aluminium (Al)	7429-90-5		0.006	mg	5988	56
				supplier	metallization	Gold (Au)	7440-57-5		0.004	mg	3992	37
				supplier	passivation	Nickel (Ni)	7440-02-0		0.004	mg	3992	37
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	998	9
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	998	9
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	5988	56
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	998	9
				supplier	back side metallization	Gold (Au)	7440-57-5		0.001	mg	998	9
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.007	mg	6986	65
				Leadframe & Clip	M-004 Copper and its alloys	44.565	mg	supplier	alloy	Copper (Cu)	7440-50-8	
supplier	alloy	Iron (Fe)	7439-89-6						0.004	mg	90	37
supplier	alloy	Iron Phosphide (FeP)	26508-33-8						0.015	mg	336	140
supplier	alloy	Zinc (Zn)	7440-66-6						0.002	mg	45	21
supplier	alloy	Lead (Pb)	7439-92-1						2.342	mg	924961	21888
Soft solder	Solder	2.532	mg	SVHC	solder	Silver (Ag)	7440-22-4		0.063	mg	24881	589
				supplier	solder	Tin (Sn)	7440-31-5		0.127	mg	50158	1187
				supplier	solder	Tin (Sn)	7440-31-5		0.127	mg	50158	1187
Encapsulation	M-011 Other inorganic materials	57.877	mg	supplier	mold compound	silica fused	7631-86-9		42.827	mg	739966	400252
				supplier	mold compound	silica quartz	14808-60-7		11.575	mg	199993	108178
				supplier	mold compound	phenolic resin	9003-35-4		2.895	mg	50020	27056
				supplier	mold compound	carbon black	1333-86-4		0.580	mg	10021	5421
connections coating	Solder	1.024	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.024	mg	1000000	9570