



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2019-02-28
Company Unique ID	NL 008751171801		
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 *	Rossana Bonaccorso	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
SMP50-130	8HST*CWB130M	A	64BA	2019-02-28
Amount	UoM	Unit type	ST ECOPACK Grade	
70.00	mg	Each	ECOPACK2	
	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	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	4.14-2.76-1.94	2	J bend	
Comment	SMA			

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 23rd November 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	186
Lead	1.07	Soft solder	15257

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	1.07	Soft solder	15257
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	1.07	Soft solder	919897

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	8HST*CW8130M					
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	0.197	mg	supplier	die	Silicon (Si)	7440-21-3		0.878	mg	957516	12557
				supplier	metallization	Aluminium (Al)	7429-90-5		0.007	mg	7625	100
				supplier	metallization	Gold (Au)	7440-57-5		0.005	mg	5447	71
				supplier	metallization	Nickel (Ni)	7440-02-0		0.005	mg	5447	71
				supplier	Passivation	Silicon Oxide	7631-86-9		0.007	mg	7625	100
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.005	mg	5447	71
				supplier	back side metallization	Gold (Au)	7440-57-5		0.002	mg	2178	29
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.008	mg	8715	114
				supplier	alloy	Copper (Cu)	7440-50-8		29.767	mg	998692	425243
				supplier	alloy	Iron (Fe)	7439-89-6		0.030	mg	1007	429
Leadframe	M-004 Copper and its alloys	29.806	mg	supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.009	mg	301	124
				supplier	alloy	Lead (Pb)	7439-92-1	7a-Lead in high me	1.068	mg	919897	15257
				supplier	alloy	Silver (Ag)	7440-22-4		0.029	mg	24978	414
				supplier	alloy	Tin (Sn)	7440-31-5		0.058	mg	49957	829
Soft solder	Solder	1.161	mg	JIG - R	solder	flux residue	Proprietary		0.006	mg	5168	86
				supplier	solder	Amorphous Silica	7631-86-9		18.928	mg	730980	270400
Encapsulation	M-011 Other inorganic materials	25.894	mg	supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		4.920	mg	190005	70286
				supplier	mold compound	Phenol resin	9003-35-4		0.777	mg	30007	11100
				supplier	mold compound	Bisphenol A-bisphenol A diglycidyle ether poly	25036-25-3		0.777	mg	30007	11100
				supplier	mold compound	Carbon black	1333-86-4		0.233	mg	8998	3329
				supplier	mold compound	Triphenylphosphine	603-35-0		0.181	mg	6991	2586
				supplier	mold compound	3-Mercaptopropyl trimethoxysilane	4420-74-0		0.078	mg	3012	1104
				supplier	solder alloy	Tin (Sn)	7440-31-5		0.741	mg	1000000	10586
				supplier	alloy	Copper (Cu)	7440-50-8		11.481	mg	1000000	164014