



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 *	2014-09-10
Contact Name *	Refer to "Supplier Comment" section	Contact Title	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	AMS & IPD Materials 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/internet/com/support/online_tech_support.jsp		

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
	8HVV*TWB039N	A	ZA41	2014-09-10
Amount	UoM	Unit type	ST ECOPACK Grade	
2050.00	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
NAC	NAC	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable ; if coating is used o	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
NAC	8.6,25.4,1.2	2	NAC	
Comment	R6; MD valid for CP :BZW50-33B, BZW50-33BRL, LDP35CARL			

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	false
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
Product(s) meets EU RoHS requirements by application of the selected exemption(s)	true
Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Product(s) is obsolete, no information is available	false
Product(s) is unknown, no information is available	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 : REACH-16th June 2014			
Query			Response
The product 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

Material Composition Declaration						Mfr Item Name	8HVV*TWB039N					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Silicon die	Other inorganic materials	22.246	mg	supplier	Silicon die	Silicon (Si)	7440-21-3		21.725	mg	976580	10598
Silicon die			mg	supplier	Alloy	Aluminium (Al)	7429-90-5		0.126	mg	5664	61
Silicon die			mg	supplier	Alloy	Nickel (Ni)	7440-02-0		0.083	mg	3731	40
Silicon die			mg	supplier	Alloy	Gold (Au)	7440-57-5		0.06	mg	2697	29
Silicon die			mg	supplier	ALLOY	Aluminium (Al)	7429-90-5		0.084	mg	3776	41
Silicon die			mg	supplier	ALLOY	Gold (Au)	7440-57-5		0.03	mg	1349	15
Silicon die			mg	supplier	ALLOY	Nickel (Ni)	7440-02-0		0.138	mg	6203	67
Leadframe	Copper & its alloys	1093.107	mg	supplier	Frame Alloy	Cu	7440-50-8		1092.56	mg	999500	532956
Leadframe			mg	supplier	Frame Alloy	Zn	7440-66-6		0.044	mg	40	21
Leadframe			mg	supplier	Frame Alloy	Fe	7439-89-6		0.109	mg	100	53
Leadframe			mg	supplier	Frame Alloy	P	7723-14-0		0.394	mg	360	192
Die attach	Other Organic Materials	9.408	mg	supplier	soft solder	Pb	7439-92-1	7a	8.702	mg	924957	4245
Die attach			mg	supplier	soft solder	Sn	7440-31-5		0.471	mg	50064	230
Die attach			mg	supplier	soft solder	Ag	7440-22-4		0.235	mg	24979	115
Encapsulation	Other inorganic materials	904.244	mg	supplier	Moulding Compound	Silica fused(SiO2)	7631-86-9		361.7	mg	400003	176439
Encapsulation			mg	supplier	Moulding Compound	silica quartz	14808-60-7		519.94	mg	575000	253629
Encapsulation			mg	supplier	Moulding Compound	phenolic resin	9003-35-4		18.085	mg	20000	8822
Encapsulation			mg	supplier	Moulding Compound	carbon black	1333-86-4		4.519	mg	4998	2204
Finishing	Tin	20.995	mg	supplier	Connection Coating	Sn	7440-31-5		20.995	mg	1000000	10241