



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 *	2014-07-07
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 *	Giuseppe Vitali Palma	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
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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
	8HZG*CWB062M	A	BO2A	2014-07-07
Amount	UoM	Unit type	ST ECOPACK Grade	
97.677	mg	Each	ECOPACK® 2	

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 ; if coating is used o	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	4.2X3.7X2.37	1	J bend	
Comment	Package: SMB CLIP (SOD 6); MD valid for SMTPA62			

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 December 2013				
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	8HZG*CW8062M					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
die (s)	Other inorganic materials	0.931	mg	supplier	die	Silicon (Si)	7440-21-3		0.879	mg	944146	8999
				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.005	mg	5371	51
				supplier		Silicon Oxide(SiO2)	7631-86-9		0.012	mg	12889	123
				supplier	metallization	Aluminium (Al)	7429-90-5		0.025	mg	26853	256
				supplier		Gold (Au)	7440-57-5		0.002	mg	2148	20
Leadframe	Copper & its alloys	35.685	mg	supplier		Nickel (Ni)	7440-02-0		0.008	mg	8593	82
				supplier	alloy	Copper (Cu)	7440-50-8		35.649	mg	998991	364968
				supplier		CopperPhosphorous (CuP)	12517-41-8		0.036	mg	1009	369
Soft solder	Other organic materials	1.011	mg	JIG R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	0.945	mg	934718	9675
				supplier		Silver (Ag)	7440-22-4		0.015	mg	14837	154
				supplier		Tin (Sn)	7440-31-5		0.051	mg	50445	522
Bonding wire	Copper & its alloys	18.33	mg	supplier	Frame clip	Copper (Cu)	7440-50-8		18.33	mg	1000000	187659
				supplier	die	Silica, vitreous	60676-86-0		31.091	mg	760004	318304
				supplier		Phenol resin	9003-35-4		2.455	mg	60011	25134
				supplier		Carbon black	1333-86-4		0.327	mg	7993	3348
				supplier		Epoxy Cresol Novolak	29690-82-2		4.173	mg	102007	42722
encapsulation	Other organic materials	40.909	mg	supplier		Metal hydroxide	Proprietary		0.818	mg	19996	8375
				supplier		Others	Proprietary		2.045	mg	49989	20936
				supplier								
connections coating	Other inorganic materials	0.811	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.811	mg	1000000	8303