



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 *	2014-11-19
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
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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
	7BUI*168FCL2	A	SH1A	2014-11-19
Amount	UoM	Unit type	ST ECOPACK Grade	
1900.00	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	
SIP	10.20,16.25,4,5	3	Through-hole	
Comment	UI TO 220 ISOL FULL PACK 0.5 AB; MD valid for CP:T1610T-8FP.			

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)
7c-1	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices

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	7BUI*168FCL2					
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	7.955	mg	supplier	die	Silicon (Si)	7440-21-3		6.894	mg	866625	3628
die (s)				supplier	metallization	Aluminium (Al)	7429-90-5		0.401	mg	50409	211
die (s)				supplier	passivation	Alumina	1344-28-1		0.056	mg	7040	29
die (s)				JIG - R	passivation	Lead silicate Glass	65997-18-4	7c-1-Electrical and	0.504	mg	63356	265
die (s)				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.033	mg	4148	17
die (s)				supplier	back side metallization	Gold (Au)	7440-57-5		0.012	mg	1508	6
die (s)				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.055	mg	6914	29
Leadframe	Copper & its alloys	611.101	mg	supplier	alloy	Copper (Cu)	7440-50-8		601.447	mg	984202	316551
Leadframe				supplier	alloy	Iron (Fe)	7439-89-6		0.277	mg	453	146
Leadframe				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.506	mg	828	266
Leadframe				supplier	metallization	Nickel (Ni)	7440-02-0		8.816	mg	14426	4640
Leadframe				supplier	metallization	Phosphorus (P)	12185-10-3		0.055	mg	90	29
Soft solder	Solder	4.088	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	3.823	mg	935176	2012
Soft solder				supplier	solder	Silver (Ag)	7440-22-4		0.061	mg	14922	32
Soft solder				supplier	solder	Tin (Sn)	7440-31-5		0.204	mg	49902	107
Bonding wire	Other inorganic materials	2.806	mg	supplier	wire	Aluminium (Al)	7429-90-5		2.806	mg	1000000	1477
encapsulation	Other Organic Materials	1268.184	mg	supplier	mold compound	Silica, vitreous	7631-86-9		923.238	mg	728000	485915
encapsulation				supplier	mold compound	Epoxy resin	Proprietary		266.319	mg	210000	140168
encapsulation				supplier	mold compound	Phenolic resin	9003-35-4		63.409	mg	50000	33373
encapsulation				supplier	mold compound	Carbon black	1333-86-4		6.341	mg	5000	3337
encapsulation				supplier	mold compound	Zinc borate	138265-88-0		8.877	mg	7000	4672
connections coating	Solder	5.866	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		5.866	mg	1000000	3087