



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 *	2015-06-03
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 *	Floriana San Biagio	Representative Title	AMS 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/web/en/support/support.html		

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
	KD6R*0339AQW	A	BO2A	2015-06-03
Amount	UoM	Unit type	ST ECOPACK Grade	
54.82	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	
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	5 -4.4 -0.9	14	gull wing	
Comment	Package: TSSOP 14 BODY 4.4 PITCH 0.65; MDF valid for LM339APT and LM339PT			

QueryList : ROHS directive 2011/65/EU _ July 2011

Query		Response
1 - Product(s) meets EU RoHS requirement without any exemptions		true
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)		false
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions		false
5 - Product(s) is obsolete, no information is available		false
6 - Product(s) is unknown, no information is available		false
Exemption Id.	Description	

QueryList : REACH-17th December 2014

Query				Response
1 - Product(s) 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	KD6R*0339AQW					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	1.155	mg	supplier	die	Silicon (Si)	7440-21-3		1.135	mg	982684	20704
				supplier	metallization	Aluminium (Al)	7429-90-5		0.009	mg	7792	164
				supplier	passivation	Silicon Nitride (SiN)	12033-89-5		0.005	mg	4329	91
				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.006	mg	5195	109
Leadframe	Copper & its alloys	27.382	mg	supplier	alloy	Copper (Cu)	7440-50-8		26.327	mg	961471	480244
				supplier	alloy	Nickel (Ni)	7440-02-0		0.821	mg	29983	14976
				supplier	alloy	Magnesium (Mg)	7439-95-4		0.041	mg	1497	748
				supplier	alloy	Silicon (Si)	7440-21-3		0.178	mg	6501	3247
				supplier	metallization	Nickel (Ni)	7440-02-0		0.014	mg	511	255
				supplier	metallization	Palladium (Pd)	7440-05-3		0.001	mg	37	18
Die attach	Other inorganic materials	0.460	mg	supplier	glue	Silver (Ag)	7440-22-4		0.419	mg	910870	7643
				supplier	glue	acrylate	Proprietary		0.023	mg	50000	420
				supplier	glue	Methacrylate	Proprietary		0.018	mg	39130	328
Bonding wire	Other inorganic materials	0.076	mg	supplier	wire	Copper (Cu)	7440-50-8		0.076	mg	1000000	1386
encapsulation	Other inorganic materials	25.747	mg	supplier	mold compound	Silica, vitreous	60676-86-0		22.581	mg	877034	411912
				supplier	mold compound	Epoxy resin A	EC 413-900-7		1.030	mg	40005	18789
				supplier	mold compound	Epoxy resin B	29690-82-2		1.030	mg	40005	18789
				supplier	mold compound	phenol resin	Proprietary		0.772	mg	29984	14082
				supplier	mold compound	carbon black	1333-86-4		0.077	mg	2991	1405
				supplier	mold compound	additive	Proprietary		0.257	mg	9982	4688