



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 *	2019-11-27
Company Unique ID	NL 008751171B01		
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 *	Antonella Lanzafame	Representative Title	AMS 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
TSV358IPT	EB6P*1872AR6	B	ZY1A-9998	2019-11-27
	Amount	UoM	Unit type	ST ECOPACK Grade
	34.89	mg	Each	ECOPACK® 3
	Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony		

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	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOT	4.4x3x0.9	6	gull wing	
Comment	TSSOP 8 BODY 4.4 PITCH 0.65			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
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
Exemption Id.	Description

QueryList : ELV directive : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : California Prop65 list, dated 7th July 2017			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			TRUE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			FALSE
Substance	amount in product (mg)	Application	ppm in product

QueryList :Customer	
Query	Response

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014				
Query				Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products				FALSE
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products				FALSE
Hasardous substance				
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE

QueryList : REACH-16th July 2019				
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 :
 note : Substance present with less 0.001mg will not be declared in this document

Mfr Item Name

EB6P*1872AR6

5999999.0

999973.0

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	1.498	mg	supplier	die	Silicon (Si)	7440-21-3		1.486	mg	991989	42591
				supplier	metallization	Aluminium (Al)	7429-90-5		0.005	mg	3338	143
				supplier	Passivation	Silicon Nitride	12033-89-5		0.004	mg	2670	115
				supplier	Passivation	Silicon Oxide	7631-86-9		0.003	mg	2003	86
Leadframe	M-004 Copper and its alloys	16.584	mg	supplier	alloy&coating	Copper (Cu)	7440-50-8		16.364	mg	986734	469017
				supplier	alloy&coating	Iron (Fe)	7439-89-6		0.132	mg	7959	3783
				supplier	alloy&coating	Phosphorus (P)	12185-10-3		0.007	mg	422	201
				supplier	alloy&coating	Zinc (Zn)	7440-66-6		0.006	mg	362	172
				supplier	alloy&coating	Silver(Ag)	7440-22-4		0.075	mg	4522	2150
				supplier	alloy&coating	Silver (Ag)	7440-22-4		0.255	mg	806962	7309
Die attach	M-015 Other organic materials	0.316	mg	supplier	glue	Bisphenol F type epoxy resin	9003-36-5		0.025	mg	79114	717
				supplier	glue	Epoxy resin	68475-94-5		0.009	mg	28481	258
				supplier	glue	2,6-Diglycidyl phenyl allyl ether	EC 417-470-1		0.009	mg	28481	258
				supplier	glue	Gamma Butyrolactone	96-48-0		0.009	mg	28481	258
				supplier	glue	Polyoxypropylenediamine	9046-10-0		0.009	mg	28481	258
Bonding wires	M-008 Precious metals	0.115	mg	supplier	wire	Gold (Au)	7440-57-5		0.115	mg	1000000	3296
Encapsulation	M-015 Other organic materials	15.546	mg	supplier	mold compound	Epoxy Resin	Proprietary		1.166	mg	75003	33419
				supplier	mold compound	Phenol Resin	205830-20-2		0.778	mg	50045	22299
				supplier	mold compound	Silica, vitreous	60676-86-0		13.463	mg	866011	385870
				supplier	mold compound	Carbon black	1333-86-4		0.077	mg	4953	2207
				JIG I	mold compound	Silica Amorphous (SiO2)	7631-86-9		0.062	mg	3988	1777
connections coating	Solder	0.830	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.830	mg	1000000	23789