




Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32L071KBU3	S9MG*447XXXZ	A	998Z	29-11-2017
	Amount	UoM	Unit type	ST ECOPACK Grade
	48.36	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant ( in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable; if coating is used or other bulk termination	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	5X5X0.55	32	No lead	
Comment	Package : A0B8 UFQFPN 5X5X0.55 32L 0.5 MM PITCH 8202208			

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 : REACH-12th January 2017				
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	S9MG*447XXXZ				6000001.0	1000000.0				
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Die or dies	M-011 Other inorganic materials	4.136	mg	supplier	die	Silicon (Si)	7440-21-3		3.831	mg	926257	79218				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.027	mg	6528	558				
				supplier	metallization	Copper (Cu)	7440-50-8		0.088	mg	21277	1820				
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.010	mg	2418	207				
				supplier	metallization	Titanium (Ti)	7440-32-6		0.013	mg	3143	269				
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	242	21				
				supplier	Passivation	Silicon Nitride	12033-89-5		0.024	mg	5803	496				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.142	mg	34333	2936				
				Supplier	Plastics/polymers	Silver	7440-22-4		0.734	mg	704535	15172				
				Supplier	Plastics/polymers	Bisphenol-F, epoxy resin	9003-36-5		0.050	mg	48437	1043				
Die Attach Epoxy _8290 _Henkel	M-011 Other inorganic materials	1.041	mg	Supplier	Plastics/polymers	Fatty acids, polymers with epichlorohydrin	68475-94-5		0.050	mg	48437	1043				
				Supplier	Plastics/polymers	Gamma Butyrolactone	96-48-0		0.050	mg	48437	1043				
				Supplier	Plastics/polymers	Epoxy Resin	Proprietary		0.050	mg	48437	1043				
				Supplier	Amines	Poly(Oxy(methyl-1, 2-ethanediyl))	9046-10-0		0.050	mg	48437	1043				
				Supplier	Metallic compounds	Copper Oxide	1317-38-0		0.050	mg	48437	1043				
				Supplier	Organic Compounds	1,4-Bis(2,3-epoxypropoxy) butane	2425-79-8		0.005	mg	4844	104				
				Mold Compound_EME-G770_Sumitor	M-011 Other inorganic materials	15.737	mg	Supplier	Plastics/polymers	Epoxy Resin A	Proprietary		0.318	mg	19837	6580
								Supplier	Plastics/polymers	Epoxy Resin B	Proprietary		0.318	mg	19837	6580
								Supplier	Plastics/polymers	Phenol Resin A	Proprietary		0.318	mg	19837	6580
								Supplier	Plastics/polymers	Phenol Resin B	Proprietary		0.318	mg	19837	6580
Supplier	Glass	Silica (Amorphous) A	60676-86-0						11.445	mg	732452	236659				
Supplier	Glass	Silica (Amorphous) B	7631-86-9						2.611	mg	162767	53991				
Supplier	Metallic compounds	Metal Hydroxide	Proprietary						0.318	mg	19837	6580				
Supplier	Additives	Carbon Black	1333-86-4						0.090	mg	5595	1856				
Supplier	Metals	Silver	7440-22-4						0.115	mg	960000	2368				
Supplier	Others	Others	Proprietary						0.005	mg	40000	99				
Bonding wire_WIRE Ag SI TYPE_MKE	Bonding Wire	0.119	mg	Supplier	Metals	Tin	7440-31-5		0.327	mg	1000000	6757				
Anode Ball_Pure Tin_Nuonengda	M-011 Other inorganic materials	0.327	mg	Supplier	Metals	Copper	7440-50-8		25.607	mg	948400	529501				
Lead frame_C7+Ag_MITSUI	Copper & its alloys	27.000	mg	Supplier	Metals	Nickel	7440-02-0		0.799	mg	29600	16526				
				Supplier	Glass	Silicon	7440-21-3		0.173	mg	6400	3573				
				Supplier	Metals	Magnesium	7439-95-4		0.041	mg	1500	837				
				Supplier	Metals	Silver	7440-22-4		0.381	mg	14100	7872				