

**Manufacturer Information**

Company:	Azoteq(Pty) Ltd 109 Main Road Paarl Western Cape Republic of South Africa
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**Authorised Representative**

Name:	Anton Walles
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**Product Information**

Product:	IQS158 MSR
Package type:	MSOP/10LD
Manufacturing site:	Anst
Weight:	27.09
Unit:	mg

**Manufacturing Process Information**

Terminal Plating:	Refer to table below
J-STD MSL Rating:	1
Peak Process Body Temp:	260 °C
Max Time at Peak Temp:	25 sec
Number of Reflow:	3

Note: 'z' in the product description refers to a user configuration option

**RoHS Material Composition Declaration**

Azoteq hereby declares full compliance for the product listed above with the requirements of European Directive 2011/65/EU Article 7 and that this declaration is made in compliance with Article 13 of the Directive.

This declaration of conformity is issued under the sole responsibility of the manufacturer

**Note:** RoHS Directive 2011/65/EU of the European Parliament quantity limit of 0.1% by mass(1000 PPM) in homogeneous material for Lead(PB), Mercury, Hexavalent Chromium, Polybrominated Biphenyl(PBB), Polybrominated Diphenyl Ethers(PBDE) and quantity limit of 0.01% by mass(100 PPM) of homogeneous material of Cadmium applies to this declaration.

The full materials composition information follows:

RoHS Material Composition Declaration



Homogenous material composition for part: IQS158 MSR based on package: MSOP/10LD with Die: AZQ145																
Composition Part	Material name	Material (weight)	Material % (weight)	Element name composition	CAS No.	Element % (weight)	Element (weight)	Cd (ppm)	Pb (ppm)	Hg(ppm)	Cr+6(ppm)	PBBs	PBDEs	Cl	Br	EU ROHS Exempt
Die	AZQ145	1.74	6.43%	Si Die	7440-21-3	100.00%	1.74	ND	ND	ND	ND	ND	ND	-	-	-
Epoxy		0.04	0.15%	Copper(II) oxide	1317-38-0	5.00%	0.00	ND	ND	ND	ND	ND	ND	-	-	-
				Epoxy resin, epichlorohydrin-dimer fatty acid	68475-94-5	5.00%	0.00									
				Silver	7440-22-4	64.10%	0.03									
				Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	5.00%	0.00									
				Poly(oxypropylene)diamine	9046-10-0	5.00%	0.00									
				Butyrolactone, gamma-	96-48-0	5.00%	0.00									
				Organosilane (Trade Secret - 10001)	TS ref# 10001	5.00%	0.00									
				Epoxy resin modifier (Trade Secret - 10038)	TS ref# 10038	0.90%	0.00									
				2,6-Diglycidyl phenyl allyl ether oligomer	UNASSIGNED	5.00%	0.00									
Leadframe	MSOP 10	8.32	30.70%	Mg	7439-95-4	0.10%	0.01	ND	7	ND	Negative	ND	ND	-	-	-
				Ni	7440-02-0	2.21%	0.18									
				Si	7440-21-3	0.65%	0.05									
				Ag	7440-22-4	1.29%	0.11									
				Cu	7440-50-8	95.75%	7.96									
Mold Compound		16.50	60.91%	Carbon Black	1333-86-4	1.00%	0.17	ND	ND	ND	ND	ND	ND	-	-	-
				Epoxy Resin B	29690-82-2	4.00%	0.66									
				Silica(Amorphous)	60676-86-0	81.00%	13.37									
				Epoxy Resin A	Trade secret A	10.00%	1.65									
				Phenol Resin	Trade secret B	4.00%	0.66									
Plating	Tin	0.35	1.29%	Sn	7440-31-5	99.99%	0.35	ND	17	ND	Negative	ND	ND	-	-	-
				Other	N/A	0.01%	0.00									

RoHS Material Composition Declaration



Composition Part	Material name	Material (weight)	Material % (weight)	Element name composition	CAS No.	Element % (weight )	Element (weight)	Cd (ppm)	Pb (ppm)	Hg(pp m)	Cr+6(p pm)	PBBs	PBDEs	Cl	Br	EU ROHS Exempt
Wire	Gold	0.14	0.51%	Au	7440-57-5	99.99%	0.14	ND	ND	ND	Negative	ND	ND	-	-	-
				Other	N/A	0.01%	0.00									

Note: Where the product is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.

**Signed:** Anton Walles:  
**Position:** Senior Logistics Engineer

**Date:** 2012/10/31



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