

Sub-Total

Bond Wire

Sub-Total

Encapsulation

Sub-Total

Terminal Plating

Sub-Total

Total

Package Material Content Declaration

ackage Description	24-Lead, 4.4 x 7.8 mm Body, 0.65 mm Lead	Pitch Thin Shr	ink Small Outline	Package (TSSC)P)		
ead Finish	Matte Tin (Sn)		Package Code / GPC Termination Base Alloy:		NSB / TKF Copper		
STD-609 Category							
31D-003 Category	L.	ackage Materi	al Declaration	oc Alloy.	Соррег		
	<u> </u>	ackage mater	l Decidration	Homogene	ous Material	Package	
Material	Substance	CAS#	Weight (mg)	Percentage	ppm	Percentage	ppm
Leadframe	Copper (Cu)	7440-50-8	22.071	97.4	974000	24.04	240441
	Iron (Fe)	7439-89-6	0.544	2.4	24000	0.59	5925
	Phosphorous (P)	7723-14-0	0.023	0.1	1000	0.02	247
	Zinc (Zn)	7440-66-6	0.023	0.1	1000	0.02	247
Sub-Total			22.660	100.0	1000000	24.69	246859
Integrated Circuit	Silicon (Si)	7440-21-3	4.473	100.0	1000000	4.87	48735
Sub-Total			4.473	100.0	1000000	4.87	48735
Die Attach	Silver (Ag)	7440-22-4	0.242	73.1	731000	0.26	2641
	Bisphenol-F Epichlorhydrin Resin	9003-36-5	0.020	6.0	60000	0.02	217
	Polyglycidyl Ester	68475-94-5	0.020	6.0	60000	0.02	217
	2,6-Diglycidyl Phenyl Allyl Ether Oligomer	Proprietary	0.017	5.2	52000	0.02	188
	Copper Oxide	1317-38-0	0.015	4.6	46000	0.02	166
	gamma-Butyrolactone	96-48-0	0.008	2.3	23000	0.01	83
	Poly(oxypropylene)diamine	Proprietary	0.008	2.3	23000	0.01	83
	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	0.002	0.5	5000	0.00	18
Sub-Total			0.332	100.0	1000000	0.36	3613
Die Pad Plating	Silver (Ag)	7440-22-4	0.383	100.0	1000000	0.42	4168

0.383

0.167

0.167

53.194

4.864

3.325

0.185

61.567

2.211

2.211

91.792

100.0

100.0

100.0

86.4

7.9

5.4

0.3

100.0

100.0

100.0

1000000

1000000

1000000

864000

79000

54000

3000

1000000

1000000

1000000

0.42

0.18

0.18

57.95

5.30

3.62

0.20

67.07

2.41

2.41

100.00

4168

1818

1818

579504

52987

36219

2012

670722

24085

24085

1000000

This semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 2015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero).

7440-57-5

60676-86-0

Proprietary

Proprietary

1333-86-4

7440-31-5

Compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.

Gold (Au)

Silica Fused

Epoxy Resin

Phenol Resin

Carbon Black

Tin (Sn)

If a chemical substance is absent from the list above, the chemical substance is NOT an intentional ingredient in the semiconductor device and, to the best of Microchip Technology Incorporated's knowledge and belief as of the date of this document, there is no credible reason to believe that the unavoidable impurity concentration of the chemical substance, if any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.

Molding compounds used by Microchip meet the UL94 V0 flammability standard for plastics. You can access the UL iQTM family of databases to obtain a test report at http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/.

The protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and certain "reels" may be made from PVC plastic.

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Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at http://echa.europa.eu/web/guest/candidate-list-table.

Au

15:19:09/21/16