

ABC®Metals, Inc.

UNCOIL THE POWER OF ABC METALS Contact us Toll Free at 800-238-8470

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April 14th, 2016

Subject: Compliance to RoHS, GADL, TSZ0001G Restrictions on Substances of Concern.

We confirm that our company has received and reviewed the EVL/GADL and TSZ0001G standards for restricted and prohibited use of substances of environmental concern.

The key raw material suppliers of ABC® Metals have attested to full compliance of the above mentioned standards. ABC has also performed audits and 3rd party testing, using accredited laboratories to test our key alloys and products for the presence of any listed substance of concern compounds and elements. ABC® Metals verified that our products are in full compliance to the reference standards, being measurably absent of or less than the detection limits, for any of the SoC elements. See laboratory test report and data on Toyota FORM 2 11-2 SoC ESS which is posted on our website, and available to any individual or company wanting to have a copy of these compliance tests.

ABC®Metals is a registered user with the International Material Data System (IMDS), and is able to provide such information upon request.

If you have any questions or comments, please do not hesitate to contact an ABC Metals representative at the phone number listed above.

Regards,

Daniel Muddell
Signature

Dan Kendall
President
ABC®Metals Inc.

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Signature

Dee Butz Corp. Director of QA MPI Corporation

deebut@abcmetals.com

Signature

Mike Englert
Mgr. Facilities & Environmental
ABC Metals and HTI Inc.

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Soc compliance evidence summary sheet (ess)				SUPPLIER APPROVAL SIGNATURES																			
Delivery Part Information				Cinn /	APPROV	ER	APPRO	VER	ORIGNATO)R													
Vehicle Code Delivery Part No.	Delivery Part Name	Delivery Part Supplier Name	Supplier Code	Sign / Date	smil 18 MM	44000046	Mh Enlist	4/40/2046	WHT	4/40/2046													
				Name /	Dan Kendall / F	4/18/2010	Mike Englert /	Director of		4/18/2010	ease reference	TC70004C 4=	-64-1	abla limita									
				Title		resident	Environmental a	and Facilites	ee Butz / Director	of Quality "PI	ease reference	1520001G to	obtain allow	abie ilmits.									
				Basis for SoC Judgment					Cr+6 PBDE PBB Asbestos Deca-BDE HBCD PFOS														
Sub-Component Part Name Sub-Component Part No.		Suppli	Supplier Name		Pb		Cd F		Hg	CI+6		PE					pestos Deca-BDE		IDE	HBCD		Judgment	
				Metho	d Result	Method	Result	Method	Result	Method	Result	Method	Result	Method	Result	Method	Result	Method	Result	Method	Result	Method	Result
C400 Series Tin Brass Alloy Sheet/Strip/Plate	C400 Series Tin Brass Alloy Sheet/Strip/Plate	ABC N	Metals Inc.	1	< 17 ppm	1	< 4 ppm	2	< 1 ppm	1	< 95 ppm	3	N/A	3	N/A	3	N/A	3	N/A	3	N/A	3	N/A See Attached
, , , , , , , , , , , , , , , , , , , ,																							
			RoHS Limit:	:	1000 ppm		1000 ppn	n	100 ppm		1000** ppm		1000 ppm		1000 ppm								
Method #	Machine																						
1	Atomic Absorption Spectrometer										performed on these ed total chromium and												
2	Cold Vapor Atomic Absorbtion									was not spe	cific to hexavalent												
3	N/A										. Total chromium would ium in a non-oxidized	d											
										state (Cr+0)	in addition to Cr+6.												
										could never exc	in the materials, if any eed the total chromium	n -											
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Judgment O	Meets requirements	Х	Does n	not meet req	uirements																	Form	n 2.11-2: Issue 5, Rev. E
SUPPLIER OC																							



Mr. Brennan Perez 2016-030482A Lab No.: **Inception: ABC Metals** March 29, 2016 500 West Clinton Report Date: April 11, 2016 April 21, 2016 Logansport, IN 46947 Amended:

PO No.: LP001978

Project: Compositional Analysis (RoHS).

Sample(s) Received:

Eight (8) sections of metalic strip idenified in the reults section on page 2.

Procedure:

Approximately 1 gram was sectioned from each sample. The sections were digested in trace metal grade acid(s) then diluted to 50 ml times using ASTM Type 1 purified water. For lead, cadmium and chromium the prepared solutions were diluted an additional 10 times then analyzed via atomic absorption (AA) per a modified SM3111B procedure. For mercury, the prepared solutions were diluted an additional 7 times then analyzed per EPA 245.1.

Requirements:

Lead 0.1% by weight (1000 ppm)

Mercury 0.1% by weight (1000 ppm)

Cadmium 0.01% by weight (100 ppm)

Hexavalent Chromium 0.1% by weight (1000 ppm)

Note: It is our policy to keep copies of reports for seven years. The data is kept on file for up to seven years. Samples (if applicable) are kept for three weeks. Samples that are hazardous will be returned to the client. If this policy poses a difficulty, please contact us to make other arrangements. If reproduced, our report must be reproduced completely. Any unauthorized alteration of this report invalidates the content.

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Results:

It should be noted that in the table below any result listed as less than (<) were below the limits of detection for the analysis performed.

Sample	Compositional Results in ppm										
Sample	Pb	Hg	Cd	Total Cr*							
C102 High-Copper	212	<0.364	<4.73	<104							
C260 Brass	57.4	<0.342	<4.45	<97.8							
G1008 Cold Rolled Low Carbon Steel	<15.5	<0.298	5.42	277							
C7025 Copper Nickel	<14.3	<0.560	<3.59	<78.9							
C110 High-Copper	15.2	<0.259	<3.37	<74.1							
C519 Phosphor Bronze	<13.6	<0.261	<3.39	127							
C655 Silicon Bronze	<15.4	0.565	<3.84	250							
C425 Tin Brass	<17.3	<0.333	<4.32	<95.1							
RoHS Limit	1000	1000	100	1000**							

^{*}The analysis performed on these samples detected total chromium and was not specific to hexavalent chromium (Cr^{+6}). Total chromium would include chromium in a non-oxidized state (Cr^{+0}) in addition to Cr^{+6} . Therefore, Cr^{+6} in the materials, if any, could never exceed the total chromium content.

Disposition:

All samples conform to RoHS limits for lead, mercury, cadmium and hexavalent chromium.

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^{**}The RoHS limit is for hexavalent chromium (Cr⁺⁶) not total chromium.

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Additional Comments:

While no testing was conducted for asbestos, PBB, PBDE, Deca-BDE, HBCD or PFOS it would be highly unlikely for any to be present within the materials. PBB, PBDE, Deca-BDE, HBCD and PFOS are organic compounds used as flame retardants or surfactants (PFOS). These compounds have boiling points well below the melt temperatures of the alloys tested and would have been evolved or decomposed when the alloys were in a molten state. Similarly, asbestos is decomposed at temperatures between 1832-2282° F (1000-1250° C). For comparison purposes the melting point of pure copper is 1984° F (1085° C).

Respectfully Submitted,

Scientific Control Laboratories, Inc.

Christopher Catalina

Metallurgical Services, Ext. 41

ccatalina@sclweb.com

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