



HSF Declaration 產品危害物質保證書

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Acknowledged by:

Company: AOPEN Inc.

Location: 5F., No.15, Ln. 128, Sinhu 1st Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)

Date: Mar. 20, 2018

Signature of authorized company representative

Name: Albert Wang

A handwritten signature in black ink that reads "Albert Wang".

Function: Quality Management

EU Regulation 1907/2006 (REACH) Compliance

- ◇ We hereby confirm and assure that products produced by our company and subsidiary, and 3rd parties items (not manufactured by / under the responsibility of AOPEN) & packaging materials, which are being delivered to **Avnet** will completely fulfill the restrictions of the use of certain hazardous substances (RoHS) Directive (2002/95/EC & 2011/65/EU) & REACH Certain dangerous substances bans as of Annex XVII and SVHC (Substances of very high concern SVHC in candidate list are less than 0.1 weight % - the thresholds and substances of SVHC are defined in Article 7 and 57 of Regulation EC No 1907/2006).
- ◇ The substance(s) listed below may be contained above the SVHC threshold of 0.1% by weight of the listed articles/ 3rd parties items (not manufactured by / under the responsibility of AOPEN) & packaging materials.

REACH SVHC Substance Report

- ◇ Article containing SVHC above the threshold of 0.1% (wt/ wt) : Battery CR2032

Product/ Part Name	SVHC Substance (EC Number/ CAS Number)	Article containing SVHC (1,2-dimethoxyethane) above the threshold of 0.1% (wt/ wt)	SVHC (1,2-dimethoxyethane) Absolute weight in Battery (g)	SVHC (1,2-dimethoxyethane) Containing ratio in Battery (wt/ wt)	Reference Information
AOPEN Digital Engine/ Media Engine series & eTILE All-in-One Touch Display	1,2-dimethoxyethane (EC Number: 203-794-9, CAS Number: 110-71-4)	Battery: CR2032	0.222	5.6%	SVHC (1,2-dimethoxyethane) – use as electrolytes solvent of batteries, and is not released during normal or reasonably foreseeable conditions of use of batteries



HSF Declaration 產品危害物質保證書

◇ Products containing Article Battery CR2032 list as following:

Material Description (AOPEN PN)	Product weight (kg)	SVHC (1,2- dimethoxyethane) < EC Number:203- 794-9, CAS Number: 110-71-4> Containing ratio in Product (wt/wt)	Article containing SVHC above the threshold of 0.1% (wt/wt) : Battery CR2032			
			Battery spec.	Battery Weight (g)	SVHC (1,2- dimethoxyethane) < EC Number:203- 794-9, CAS Number: 110-71-4> Absolute weight in Battery (g)	SVHC (1,2- dimethoxyethane) < EC Number:203- 794-9, CAS Number: 110-71-4> Containing ratio in Battery (wt/wt)
491.ADE00.0010	1.42	0.016%	CR2032	2.90	0.222	5.6%
491.ADE00.0030	1.42	0.016%	CR2032	2.90	0.222	5.6%
491.ADE00.0040	1.42	0.016%	CR2032	2.90	0.222	5.6%
491.ADE00.7160	1.80	0.012%	CR2032	2.90	0.222	5.6%
491.OE500.0020	0.96	0.023%	CR2032	2.90	0.222	5.6%
491.OE571.0020	0.96	0.023%	CR2032	2.90	0.222	5.6%
491.OE600.0170	1.20	0.019%	CR2032	2.90	0.222	5.6%
491.OE600.0240	1.00	0.022%	CR2032	2.90	0.222	5.6%
491.OE700.0070	1.05	0.021%	CR2032	2.90	0.222	5.6%
491.OE800.0010	1.20	0.019%	CR2032	2.90	0.222	5.6%
491.OE800.0160	1.20	0.019%	CR2032	2.90	0.222	5.6%
491.OE800.A100	1.12	0.020%	CR2032	2.90	0.222	5.6%
491.OE800.A150	1.12	0.020%	CR2032	2.90	0.222	5.6%
491.OEC00.0100	1.71	0.013%	CR2032	2.90	0.222	5.6%
491.OEC01.0010	1.71	0.013%	CR2032	2.90	0.222	5.6%
491.OED00.0070	1.60	0.015%	CR2032	2.90	0.222	5.6%
491.WT600.0020	7.30	0.003%	CR2032	2.90	0.222	5.6%
491.WT600.0060	7.30	0.003%	CR2032	2.90	0.222	5.6%
81.ME400.0E10	0.49	0.045%	CR2032	2.90	0.222	5.6%
81.WT300.5120	5.07	0.004%	CR2032	2.90	0.222	5.6%
91.ADE00.70A0	1.91	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.70B0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.70H0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.70K0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.70G0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.70T0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.71D0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.71E0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.71J0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.71M0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.71V0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.72F0	1.90	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.72K0	1.92	0.012%	CR2032	2.90	0.222	5.6%
91.ADE00.A160	1.54	0.014%	CR2032	2.90	0.222	5.6%
91.ADE00.A160	1.54	0.014%	CR2032	2.90	0.222	5.6%
91.ADE00.A1F0	1.54	0.014%	CR2032	2.90	0.222	5.6%
91.ADE00.F2D0	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.ADE00.F2E0	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.ADE00.F2E0	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.ADE00.F2G0	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.ADE00.F2H0	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.ADE00.T260	1.21	0.016%	CR2032	2.90	0.222	5.6%
91.ADE00.T260	1.21	0.016%	CR2032	2.90	0.222	5.6%
91.ADE00.T5E0	2.00	0.011%	CR2032	2.90	0.222	5.6%
91.ADE00.T5G0	2.00	0.011%	CR2032	2.90	0.222	5.6%
91.ADE01.7010	1.80	0.012%	CR2032	2.90	0.222	5.6%
91.ADE01.A120	1.42	0.016%	CR2032	2.90	0.222	5.6%
91.ADE01.F220	1.08	0.021%	CR2032	2.90	0.222	5.6%
91.ADE01.F250	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.ADE01.J220	1.08	0.021%	CR2032	2.90	0.222	5.6%
91.ADE01.L520	1.23	0.016%	CR2032	2.90	0.222	5.6%
91.OE201.L220	2.26	0.010%	CR2032	2.90	0.222	5.6%
91.OE201.L520	2.85	0.006%	CR2032	2.90	0.222	5.6%
91.OE501.0020	0.96	0.023%	CR2032	2.90	0.222	5.6%
91.OE600.00A0	1.03	0.022%	CR2032	2.90	0.222	5.6%
91.OE600.E0A0	1.00	0.022%	CR2032	2.90	0.222	5.6%
91.OE600.E1A0	1.20	0.019%	CR2032	2.90	0.222	5.6%
91.OE600.E1A0	1.20	0.019%	CR2032	2.90	0.222	5.6%
91.OE601.0020	1.03	0.022%	CR2032	2.90	0.222	5.6%
91.OE601.E120	1.03	0.022%	CR2032	2.90	0.222	5.6%
91.OE700.00A0	1.05	0.021%	CR2032	2.90	0.222	5.6%
91.OE700.E0B0	1.10	0.020%	CR2032	2.90	0.222	5.6%
91.OE700.E0C0	1.10	0.020%	CR2032	2.90	0.222	5.6%
91.OE701.0030	0.96	0.023%	CR2032	2.90	0.222	5.6%
91.OE800.E0A0	1.20	0.019%	CR2032	2.90	0.222	5.6%
91.OE800.E0B0	1.20	0.019%	CR2032	2.90	0.222	5.6%



HSF Declaration 產品危害物質保證書

91.DE300.E0E0	1.10	0.020%	CR2032	2.90	0.222	5.6%
91.DE300.E0X0	1.72	0.013%	CR2032	2.90	0.222	5.6%
91.DE300.E4D0	1.70	0.013%	CR2032	2.90	0.222	5.6%
91.DE801.E020	1.10	0.020%	CR2032	2.90	0.222	5.6%
91.DE801.E030	1.10	0.020%	CR2032	2.90	0.222	5.6%
91.DE801.E420	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.DE901.E010	2.60	0.009%	CR2032	2.90	0.222	5.6%
91.DEA00.E1A0	1.14	0.019%	CR2032	2.90	0.222	5.6%
91.DEC00.E0B0	1.15	0.019%	CR2032	2.90	0.222	5.6%
91.DEC01.E010	1.02	0.022%	CR2032	2.90	0.222	5.6%
91.DED00.E0A0	1.60	0.015%	CR2032	2.90	0.222	5.6%
91.DED00.E0B0	1.51	0.015%	CR2032	2.90	0.222	5.6%
91.DED00.E1A0	1.47	0.015%	CR2032	2.90	0.222	5.6%
91.DED01.E010	1.47	0.015%	CR2032	2.90	0.222	5.6%
91.DED01.E110	1.22	0.018%	CR2032	2.90	0.222	5.6%
91.DED01.E120	1.20	0.019%	CR2032	2.90	0.222	5.6%
91.DED01.E130	1.25	0.018%	CR2032	2.90	0.222	5.6%
91.DEE00.E0A0	1.60	0.012%	CR2032	2.90	0.222	5.6%
91.DEE00.E0B0	1.60	0.012%	CR2032	2.90	0.222	5.6%
91.DEE00.E0D0	1.60	0.012%	CR2032	2.90	0.222	5.6%
91.DEE01.E020	1.77	0.013%	CR2032	2.90	0.222	5.6%
91.DES00.E1A0	1.90	0.012%	CR2032	2.90	0.222	5.6%
91.ME400.EA40	0.61	0.036%	CR2032	2.90	0.222	5.6%
91.MEA00.E010	0.32	0.069%	CR2032	2.90	0.222	5.6%
91.MF601.B1E0	1.70	0.013%	CR2032	2.90	0.222	5.6%
91.WT100.T1F0	6.70	0.003%	CR2032	2.90	0.222	5.6%
91.WT200.RC20	7.35	0.003%	CR2032	2.90	0.222	5.6%
91.WT200.TH20	7.32	0.003%	CR2032	2.90	0.222	5.6%
91.WT200.TH40	7.32	0.003%	CR2032	2.90	0.222	5.6%
91.WT300.EB20	4.36	0.005%	CR2032	2.90	0.222	5.6%
91.WT300.F220	7.49	0.003%	CR2032	2.90	0.222	5.6%
91.WT300.F320	7.49	0.003%	CR2032	2.90	0.222	5.6%
91.WT300.F510	3.71	0.006%	CR2032	2.90	0.222	5.6%
91.WT300.F760	5.62	0.004%	CR2032	2.90	0.222	5.6%
91.WT300.F7J0	5.61	0.004%	CR2032	2.90	0.222	5.6%

Representative: Albert Wang

Date: Mar. / 20 / 2018