

28<sup>th</sup> Mar 2024

To: AKM Meadville Electronics (Xiamen) Co., Ltd. Printed Circuit Board Customers

Re: Declaration on European Union (EU) REACH Compliance

Dear Valued Customers:

AKM Meadville Electronics (Xiamen) Co., Ltd., and all its wholly owned subsidiaries <sup>(1)</sup>, is a “build to print” manufacturer that builds unpopulated printed circuit boards (bare boards) that are specified by our respective customers. Our bare boards are classified to “article” as defined under Article 3(3) of REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) that may include “complex objects”; And there are no substances intended to be released from the products as defined by REACH article 7(1) under normal or reasonably foreseeable conditions of use. Under the above conditions, the substances in “article” are not required registration under REACH regulation.

Bare boards manufactured by us:

- Do not violate any REACH Annex XVII restriction(s) per the updated version dated on 12<sup>th</sup> Dec 2023 (<https://echa.europa.eu/substances-restricted-under-reach>) ;
- Do not contain any of the reportable 240 SVHC (Substances of Very High Concern) ingredients listed on the REACH Candidate List of SVHC as updated on 23<sup>rd</sup> Jan 2024 (<https://echa.europa.eu/candidate-list-table>) at a concentration of  $\geq 0.1$  wt. % with the following potential exceptions (the raw materials listed in below table are required using in the customer’s design and the weight of the SVHC divided by the weight of the bare board is  $\geq 0.1$  wt.%):

SVHC	CAS No.	Raw Material	Material Type
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Taiyo ink	PSR-4000 GEC50/CA-40 G50, PSR-4000 EG70M/CA-40 G50, PSR-9000 FLX501/CA-90 FLX501, PSR-9000 FLX501OR/CA-90 FLX501, PSR-9000 FLX81EM/CA-90 FLX81EM, PSR-4000 LT02G/CA-40 LT01
4,4'-isopropylidenediphenol	80-05-7	Mitsubishi copper clad laminate, prepreg	CCL-HL832NX(typeA), GHPL-830NX(typeA), CCL-HL820,820W, GHPL-820WDI
		Panasonic copper clad laminate, prepreg	R-1650V, R-5725S, R-5620S, R-5725, R-5620,

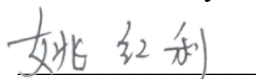
(1) Wholly owned subsidiaries included, but not limited to Meadville Technologies Co., Ltd., Guangzhou Meadville Electronics Co., Ltd., Shanghai Meadville Electronics Co., Ltd., Shanghai Meadville Science & Technology Co., Ltd.

N,N-dimethylacetamide (DMAC)	127-19-5	DuPont copper clad laminate	AP5121R, AP5525R, AP7102D/E/R, AP7123D/R, AP7125D/E, AP7127E/R, AP7147E, AP7156E/R, AP7158D/R, AP7163E/R, AP7164E/R, AP7165R, AP7167D/R, AP7168R, AP7181D/R, AP7182R*, AP7183R, AP7186E*, AP7214R, AP7215R, AP7217E, AP7229R, AP7330E, AP7339R, AP7340R, AP7342R*, AP7367E, AP7369R, AP7382E/ES, AP7384R, AP7391R, AP7394E, AP7399E*, AP7401E/R, AP7411EM, AP7413R, AP7419R, AP7423E, AP7424E, AP7448E, AP7456E, AP7457E, AP7458E, AP7475R, AP8515D/E/ES/R, AP8525D/E/ES/R, AP8535D/E/R, AP8545D/E/R, AP8555D/R, AP8565D/R, AP8575R, AP8585R, AP9111D/E/R, AP9112R, AP9121D/E/R, AP9122D/R, AP9123D, AP9131D/E/R, AP9132R, AP9141D/E/R, AP9142R, AP9151D/E/R, AP9152R, AP9161D/R, AP9171R, AP9181R, AP9191R, AP9222D/E/R, AP9232D/R, AP9242R, AP9244R, AP9252R, AP9262R, AP9313R, AP9323D/R, AP9333R, AP9343R, AP9424R, AP9444R
		Resonac copper clad laminate, prepreg	GHA-679G, MCL-HE-679G
Melamine	108-78-1	Taiyo ink	PSR-4000 AUS308 / CA-40 AUS308(cured), PSR- 4000 AUS703-140PS / CA-40 AUS703- 140PS*(cured), PSR-4000 D10ME / CA-40 D10(cured), PSR-4000 D10ME2 / CA-40 D10*(cured), PSR-4000 D60ME / CA-40 D60(cured), PSR-4000 D60ME* / CA-40 D60(cured), PSR-4000 LEW3 / CA- 40 LEW3(cured), PSR-800 AUS ME1-Z(cured), PSR- 800 AUS SR1(cured), SR-800 AUS SR1-A(cured), PSR-800 AUS SR1-Z(cured), PSR-4000 GEC50/CA- 40 G50, PSR-4000 RD5/CA-40 GF5, PSR-4000 RD5/CA-40 GF5, PSR-2000 ME8H/CA-25 E, PSR- 2000 ME8H/CA-25 E, PSR-2000 ME8H/CA-25 E, PSR-2000 ME8H/CA-25 E, PSR-4000 G23K/CA-40 G23K, PSR-4000 GHP3X-1/CA-40 GHP3, PSR-4000 MPHF/CA-40 MPHF, PSR-4000 PF9HF/CA-40 PF9HF, PSR-4000 PF9-blue/CA-40 PF9, PSR-4000 PF10ME/CA-40 PF10, PSR-4000 Z26-200Ps/CA-40 Z26K, PSR-9000 FLX501/CA-90 FLX501, PSR-9000 FLX501OR/CA-90 FLX501, PSR-9000 FLX505EM/CA-90 FLX505EM, PSR-9000 FLX81EM/CA-90 FLX81EM, PSR-4000 LT02G/CA- 40 LT01, PSR-4000 MH/CA-40 MH, M-2000 ME8H/CA-25 E, PSR-2000 BL600/CA-25 GL01(Cured Film), PSR-4000 ME/CA-40 G23K(Cured Film),
		OTC ink	R-500 M-211、ZW R-500 2W(8)
Hexahydro-4- methylphthalic anhydride	19438-60-9	Panasonic prepreg	R-A550(W)
Cyclohexane-1,2- dicarboxylic anhydride	85-42-7	Panasonic prepreg	R-A550(W)
Tetrabromobisphenol A	79-94-7	Isola prepreg	FR408 Prepreg, FR408HR Prepreg

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	TEMPRA ink	DSR-330S50-99G SET, DSR-330S50-99GHF SET, DSR-2200TT 19GHF SET
		Technic ink	TechniFlex LCL 1000F/900G, 1000F/110G A81, 1000F/001G BA2, 1000F/410M A81, 1000F/421M U6, 1000F/423M U7S-P
		Resonac ink	SR7300GR-B, CT7300A-B
		Taiyo ink	PSR-4000 Z26-200Ps/CA-40 Z26K, PSR-4000 RD5/CA-40 GF5, PSR-4000 PF9HF/CA-40 PF9HF, PSR-4000 PF9-blue/CA-40 PF9, PSR-4000 PF10ME/CA-40 PF10, PSR-4000 MPH/CA-40 MPH, PSR-4000 MP / CA-40 MP(cured), PSR-4000 MH/CA-40 MH, PSR-4000 MEH/CA-40 G23K, PSR-4000 ME/CA-40 G23K(Cured Film), PSR-4000 MB10 WITH CA-40, PSR-4000 GHP3X-1/CA-40 GHP3, PSR-4000 G23K/CA-40 G23K, PSR-4000 EG23/CA-40 G23K, PSR-4000 EFB30 WITH CA-40, PSR-4000 BL01/CA-40 G24, PSR-2000 ME8H/CA-25 E, PSR-2000 BL600/CA-25 GL01(Cured Film)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Taiyo ink	PSR-800 AUS SR1-Z(cured), PSR-800 AUS SR1-A(cured), PSR-800 AUS SR1(cured), PSR-800 AUS ME1-Z(cured), PSR-4000 LT02G/CA-40 LT01, PSR-4000 LEW3 / CA-40 LEW3(cured), PSR-4000 AUS320E / CA-40 AUS320*(cured), PSR-4000 AUS320 / CA-40 AUS320(cured), IJR-4000 FW200, PSR-4000TTR23066/CA-40 WT05(Cured Film), PSR-4000TTR23034/CA-40 WT05(Cured Film), PSR-4000TTR23015/CA-40 WT05(Cured Film), PSR-4000TTR21068/CA-40 WT05(Cured Film), PSR-4000TTR21066/CA-40 WT05(Cured Film)
		OTC ink	R-500 2W(8)
		Technic ink	TechniFlex LCL1000F/423M U7S-P, LCL1000F/421M U6
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Taiyo ink	PSR-4000 D60ME / CA-40 D60(cured), PSR-4000 D60ME* / CA-40 D60(cured), PSR-9000 FLX505EM/CA-90 FLX505EM

Should there be any queries over the aforementioned information, please contact your AKM Meadville Electronics (Xiamen) Co., Ltd. Representative(s) accordingly.

Yours sincerely,



Wendy Yao

Manager, Quality Management & EHS Management System  
 AKM Meadville Electronics (Xiamen) Co., Ltd.

2024年3月28日

致：安捷利美维电子（厦门）有限责任公司印刷电路板客户

关于：欧盟REACH声明

尊敬的客户：

安捷利美维电子（厦门）有限责任公司，及旗下全资子公司<sup>(1)</sup>，作为“按图制作”的生产商，是按照客户指定要求生产未贴件的印刷电路板（光板）。我司的光板符合REACH 条款3(3)关于“物品”的定义，属于“合成物品”；同时也满足REACH 条款7(1)的中所定义的情况，即产品在正常的或合理的可预期情况下使用则不会释放既定的化学物质。在上述条件下，“物品”中的化学物质无需按照REACH进行注册。

我司生产的光板：

- 不违反2023年12月12日更新的REACH附录XVII -限制物质 (<https://echa.europa.eu/substances-restricted-under-reach>);
- 不含任何重量浓度>0.1% 的240项“高关注度物质”，具体请见2024年1月23日更新的REACH候选物质清单(<https://echa.europa.eu/candidate-list-table>)，除以下潜在特殊情况（按客户要求使用下表所列物料且光板按重量分解后此高关注度物质重量大于等于0.1%）：

高度关注物质	CAS 号	涉及物料	物料型号
2-苄基-2-二甲基氨基-4'-吗啉基苯基丁酮	119313-12-1	太阳油墨	PSR-4000 GEC50/CA-40 G50, PSR-4000 EG70M/CA-40 G50, PSR-9000 FLX501/CA-90 FLX501, PSR-9000 FLX501OR/CA-90 FLX501, PSR-9000 FLX81EM/CA-90 FLX81EM, PSR-4000 LT02G/CA-40 LT01
双酚 A(BPA)	80-05-7	三菱覆铜板, 半固化片	CCL-HL832NX(typeA), GHPL-830NX(typeA), CCL-HL820,820W, GHPL-820WDI
		松下覆铜板, 半固化片	R-1650V, R-5725S, R-5620S, R-5725, R-5620,

(1) 旗下全资子公司，包括并不限于美维科技有限公司，广州美维电子有限公司，上海美维电子有限公司，上海美维科技有限公司。

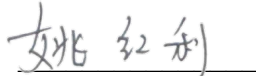
N,N-二甲基乙酰胺 (DMAC)	127-19-5	杜邦覆铜板	AP5121R, AP5525R, AP7102D/E/R, AP7123D/R, AP7125D/E, AP7127E/R, AP7147E, AP7156E/R, AP7158D/R, AP7163E/R, AP7164E/R, AP7165R, AP7167D/R, AP7168R, AP7181D/R, AP7182R*, AP7183R, AP7186E*, AP7214R, AP7215R, AP7217E, AP7229R, AP7330E, AP7339R, AP7340R, AP7342R*, AP7367E, AP7369R, AP7382E/ES, AP7384R, AP7391R, AP7394E, AP7399E*, AP7401E/R, AP7411EM, AP7413R, AP7419R, AP7423E, AP7424E, AP7448E, AP7456E, AP7457E, AP7458E, AP7475R, AP8515D/E/ES/R, AP8525D/E/ES/R, AP8535D/E/R, AP8545D/E/R, AP8555D/R, AP8565D/R, AP8575R, AP8585R, AP9111D/E/R, AP9112R, AP9121D/E/R, AP9122D/R, AP9123D, AP9131D/E/R, AP9132R, AP9141D/E/R, AP9142R, AP9151D/E/R, AP9152R, AP9161D/R, AP9171R, AP9181R, AP9191R, AP9222D/E/R, AP9232D/R, AP9242R, AP9244R, AP9252R, AP9262R, AP9313R, AP9323D/R, AP9333R, AP9343R, AP9424R, AP9444R
		力森诺科覆铜板, 半固化片	GHA-679G, MCL-HE-679G
三聚氰胺	108-78-1	太阳油墨	PSR-4000 AUS308 / CA-40 AUS308(cured), PSR-4000 AUS703-140PS / CA-40 AUS703-140PS*(cured), PSR-4000 D10ME / CA-40 D10(cured), PSR-4000 D10ME2 / CA-40 D10*(cured), PSR-4000 D60ME / CA-40 D60(cured), PSR-4000 D60ME* / CA-40 D60(cured), PSR-4000 LEW3 / CA-40 LEW3(cured), PSR-800 AUS ME1-Z(cured), PSR-800 AUS SR1(cured), SR-800 AUS SR1-A(cured), PSR-800 AUS SR1-Z(cured), PSR-4000 GEC50/CA-40 G50, PSR-4000 RD5/CA-40 GF5, PSR-4000 RD5/CA-40 GF5, PSR-2000 ME8H/CA-25 E, PSR-2000 ME8H/CA-25 E, PSR-2000 ME8H/CA-25 E, PSR-4000 G23K/CA-40 G23K, PSR-4000 GHP3X-1/CA-40 GHP3, PSR-4000 MPHF/CA-40 MPHF, PSR-4000 PF9HF/CA-40 PF9HF, PSR-4000 PF9-blue/CA-40 PF9, PSR-4000 PF10ME/CA-40 PF10, PSR-4000 Z26-200Ps/CA-40 Z26K, PSR-9000 FLX501/CA-90 FLX501, PSR-9000 FLX501OR/CA-90 FLX501, PSR-9000 FLX505EM/CA-90 FLX505EM, PSR-9000 FLX81EM/CA-90 FLX81EM, PSR-4000 LT02G/CA-40 LT01, PSR-4000 MH/CA-40 MH, M-2000 ME8H/CA-25 E, PSR-2000 BL600/CA-25 GL01(Cured Film), PSR-4000 ME/CA-40 G23K(Cured Film),
		永胜泰油墨	R-500 M-211、ZW R-500 2W(8)
六氢-4-甲基邻苯二甲酸酐	19438-60-9	松下半固化片	R-A550(W)
环己烷-1,2-二羧酸酐	85-42-7	松下半固化片	R-A550(W)
四溴双酚 A	79-94-7	德联半固化片	FR408 Prepreg, FR408HR Prepreg

(1) 旗下全资子公司, 包括并不限于美维科技有限公司, 广州美维电子有限公司, 上海美维电子有限公司, 上海美维科技有限公司。

2-甲基-1-(4-甲硫基苯基)-2-吗啉基丙基-1-酮	71868-10-5	延科油墨	DSR-330S50-99G SET, DSR-330S50-99GHF SET, DSR-2200TT 19GHF SET
		得麒力油墨	TechniFlex LCL 1000F/900G, 1000F/110G A81, 1000F/001G BA2, 1000F/410M A81, 1000F/421M U6, 1000F/423M U7S-P
		力森诺科油墨	SR7300GR-B, CT7300A-B
		太阳油墨	PSR-4000 Z26-200Ps/CA-40 Z26K, PSR-4000 RD5/CA-40 GF5, PSR-4000 PF9HF/CA-40 PF9HF, PSR-4000 PF9-blue/CA-40 PF9, PSR-4000 PF10ME/CA-40 PF10, PSR-4000 MPHF/CA-40 MPHF, PSR-4000 MP / CA-40 MP(cured), PSR-4000 MH/CA-40 MH, PSR-4000 MEH/CA-40 G23K, PSR-4000 ME/CA-40 G23K(Cured Film), PSR-4000 MB10 WITH CA-40, PSR-4000 GHP3X-1/CA-40 GHP3, PSR-4000 G23K/CA-40 G23K, PSR-4000 EG23/CA-40 G23K, PSR-4000 EFB30 WITH CA-40, PSR-4000 BL01/CA-40 G24, PSR-2000 ME8H/CA-25 E, PSR-2000 BL600/CA-25 GL01(Cured Film)
(2,4,6-三甲基苯甲酰基)二苯基氧化膦	75980-60-8	太阳油墨	PSR-800 AUS SR1-Z(cured), PSR-800 AUS SR1-A(cured), PSR-800 AUS SR1(cured), PSR-800 AUS ME1-Z(cured), PSR-4000 LT02G/CA-40 LT01, PSR-4000 LEW3 / CA-40 LEW3(cured), PSR-4000 AUS320E / CA-40 AUS320*(cured), PSR-4000 AUS320 / CA-40 AUS320(cured), IJR-4000 FW200, PSR-4000TTR23066/CA-40 WT05(Cured Film), PSR-4000TTR23034/CA-40 WT05(Cured Film), PSR-4000TTR23015/CA-40 WT05(Cured Film), PSR-4000TTR21068/CA-40 WT05(Cured Film), PSR-4000TTR21066/CA-40 WT05(Cured Film)
		永胜泰油墨	R-500 2W(8)
		得麒力油墨	TechniFlex LCL1000F/423M U7S-P, LCL1000F/421M U6
2-(二甲基氨基)-2-[(4-甲基苯基)甲基]-1-[4-(吗啉-4-基)苯基]丁-1-酮	119344-86-4	太阳油墨	PSR-4000 D60ME / CA-40 D60(cured), PSR-4000 D60ME* / CA-40 D60(cured), PSR-9000 FLX505EM/CA-90 FLX505EM

若贵司对此信息有任何疑问, 请联系贵司之安捷利美维电子(厦门)有限责任公司代表。

此致



姚红利

经理, 质量管理与EHS体系部

安捷利美维电子(厦门)有限责任公司