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Bivar, Inc.
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Certificate of RoHS 3 / REACH Compliance

Date: 10/09/2023

This document certifies that the component of the part number as stated below and manufactured by Bivar Inc, is in compliance with Directive (EU)2015/863 AND 2011/65/Eu of The European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronics equipment (RoHS 3/recast). Additionally, the part number as stated below is in compliance with Directive 2006/122/EC on the restriction of use of PFOS (perfluorooctane sulfonates). The stated component is deemed as compliant according to the definitions given in the EU directives (refer to directives).

Part number		Description								
PLPC3-8MM		Rigid Light Pipes - PLPC								
Cadmium	Hexavalent Chromium	Lead	Mercury	PBB	PBDE	PFOS	DBP	DEHP	BBP	DIBP
Max 0.01% per weight	Max 0.1% per weight	Max 0.1% per weight	Max 0.1% per weight	Max 0.1% per weight						
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

• ND = Not Detected

REACH Substances of Very High Concern (SVHC)

Chemical Name	CAS No.	Usage
4,4'- Diaminodiphenylmethane	101-77-9	0
Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0
Anthracene	120-12-7	0
Diarsenic pentaoxide	1303-28-2	0
Diarsenic trioxide	1327-53-3	0
Triethyl arsenate	15606-95-8	0
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 and 3194-55-6(134237-51-7, 134237-50-6, 134237-52-8)	0
Bis(tributyltin)oxide; Tributyltin oxide	56-35-9	0
Cobalt dichloride	7646-79-9	0
Lead hydrogen arsenate	7784-40-9	0



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Sodium dichromate	7789-12-0	0
	10588-01-9	0
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0
Dibutyl phthalate	84-74-2	0
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0
Benzyl butyl phthalate	85-68-7	0
Anthracene oil	90640-80-5	0
Anthracene oil, anthracene paste, distn. Lights	91995-17-4	0
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0
Anthracene oil, anthracene-low	90640-82-7	0
Anthracene oil, anthracene paste	90640-81-6	0
Coal tar pitch, high temperature	65996-93-2	0
Aluminosilicate, Refractory Ceramic Fibres		0
Zirconia Aluminosilicate, Refractory Ceramic Fibres		0
2,4-Dinitrotoluene	121-14-2	0
Diisobutyl phthalate	84-69-5	0
Lead chromate	7758-97-6	0
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	0
Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	0
Tris(2-chloroethyl)phosphate	115-96-8	0
Acrylamide	79-06-1	0
Trichloroethylene	79-01-6	0
Boric acid	10043-35-3 and 11113-50-1	0
Disodium tetraborate, anhydrous	1303-96-4,1330-43-4,12179-04-3	0
Tetraboron disodium heptaoxide, hydrate	12267-73-1	0
Potassium chromate	7789-00-6	0
Ammonium dichromate	7789-09-5	0
Potassium dichromate	7778-50-9	0
sodium chromate	7775-11-3	0
Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-513530-68-2	0
Chromium trioxide	1333-82-0	0
2-Ethoxyethanol	110-80-5	0
2-Methoxyethanol	109-86-4	0
Cobalt(II) diacetate	71-48-7	0



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Cobalt(II) carbonate	513-79-1	0
Cobalt(II) dinitrate	10141-05-6	0
Cobalt(II) sulphate	10124-43-3	0
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0
1,2,3-Trichloropropane	96-18-4	0
1-Methyl-2-pyrrolidone	872-50-4	0
Hydrazine	302-01-2 / 7803-57-8	0
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0
Strontium chromate	7789-06-2	0
2-Ethoxyethyl acetate	111-15-9	0
Zirconia Aluminosilicate Refractory Ceramic Fibres <i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>		0
Calcium arsenate	7778-44-1	0
Bis(2-methoxyethyl) ether	111-96-6	0
Aluminosilicate Refractory Ceramic Fibres <i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>		0
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	0
Lead dipicrate	6477-64-1	0
N,N-dimethylacetamide	127-19-5	0
Arsenic acid	7778-39-4	0



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2-Methoxyaniline; o-Anisidine	90-04-0	0
Trilead diarsenate	3687-31-8	0
1,2-dichloroethane	107-06-2	0
Pentazinc chromate octahydroxide	49663-84-5	0
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0
Bis(2-methoxyethyl) phthalate	117-82-8	0
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0
Lead diazide, Lead azide	13424-46-9	0
Phenolphthalein	77-09-8	0
Dichromium tris(chromate)	24613-89-6	0
Lead styphnate	15245-44-0	0
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	0
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	0
Lead(II) bis(methanesulfonate)	17570-76-2	0
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0
Diboron trioxide	1303-86-2	0
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	0
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0
Formamide	75-12-7	0
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	0
Pyrochlore, antimony lead yellow	8012-00-8	0



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6-methoxy-m-toluidine (p-cresidine)	120-71-8	0
Henicosfluoroundecanoic acid	2058-94-8	0
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i>	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]</i>	85-42-7, 13149-00-3, 14166-21-3	0
Dibutyltin dichloride (DBTC)	683-18-1	0
Lead bis(tetrafluoroborate)	13814-96-5	0
Lead dinitrate	10099-74-8	0
Silicic acid, lead salt	11120-22-2	0
4-Aminoazobenzene	60-09-3	0
Lead titanium zirconium oxide	12626-81-2	0
Lead monoxide (lead oxide)	1317-36-8	0
o-Toluidine	95-53-4	0
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]</i>	68784-75-8	0
Trilead bis(carbonate)dihydroxide	1319-46-6	0
Furan	110-00-9	0
N,N-dimethylformamide	68-12-2	0
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	0
4-Nonylphenol, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i>	-	0
4,4'-methylenedi-o-toluidine	838-88-0	0



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Diethyl sulphate	64-67-5	0
Dimethyl sulphate	77-78-1	0
Lead oxide sulfate	12036-76-9	0
Lead titanium trioxide	12060-00-3	0
Acetic acid, lead salt, basic	51404-69-4	0
[Phthalato(2-)]dioxotrilead	69011-06-9	0
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0
N-methylacetamide	79-16-3	0
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0
1,2-Diethoxyethane	629-14-1	0
Tetralead trioxide sulphate	12202-17-4	0
N-pentyl-isopentylphthalate	776297-69-9	0
Dioxobis(stearato)trilead	12578-12-0	0
Tetraethyllead	78-00-2	0
Pentalead tetraoxide sulphate	12065-90-6	0
Pentacosafuorotridecanoic acid	72629-94-8	0
Tricosafuorododecanoic acid	307-55-1	0
Heptacosafuorotetradecanoic acid	376-06-7	0
1-bromopropane (n-propyl bromide)	106-94-5	0
Methoxyacetic acid	625-45-6	0
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0
Methyloxirane (Propylene oxide)	75-56-9	0
Trilead dioxide phosphonate	12141-20-7	0
o-aminoazotoluene	97-56-3	0
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0
4,4'-oxydianiline and its salts	101-80-4	0
Orange lead (lead tetroxide)	1314-41-6	0
Biphenyl-4-ylamine	92-67-1	0
Diisopentylphthalate	605-50-5	0
Fatty acids, C16-18, lead salts	91031-62-8	0
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0
Sulfurous acid, lead salt, dibasic	62229-08-7	0
Lead cyanamidate	20837-86-9	0
Cadmium	7440-43-9	0



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Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0
Pentadecafluorooctanoic acid (PFOA)	335-67-1	0
Dipentyl phthalate (DPP)	205-017-9	0
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]		0
Cadmium oxide	1306-19-0	0
Cadmium sulphide	1306-23-6	0
Disodium 4-amino-3-[[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5- hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0
Dihexyl phthalate	84-75-3	0
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0
Trixylyl phosphate	25155-23-1	0
Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	0
Lead di(acetate)	301-04-2	0
Cadmium chloride	10108-64-2	0
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0
Sodium peroxometaborate	7632-04-4	0
Sodium perborate; perboric acid, sodium salt		0
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0
reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2- oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0
Cadmium fluoride	7790-79-6	0
Cadmium sulphate	10124-36-4,31119-53-6	0
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No.201-559-5)	68515-51-5, 68648-93-1	0



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5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl- 2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]		0
1,3-propanesultone	1120-71-4	0
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0
Nitrobenzene	98-95-3	0
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	0
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7	0
p-(1,1-dimethylpropyl)phenol	80-46-6	0
4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		0
Perfluorohexane-1-sulfonic acid and its salts (PFHxS)		0
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	0
Chrysene	218-01-9, 1719-03-5	0
Benz[a]anthracene	56-55-3, 1718-53-2	0
Cadmium nitrate	10325-94-7, 10022-68-1	0
Cadmium hydroxide	21041-95-2	0
Cadmium carbonate	513-78-0	0
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	13560-89-9 135821-74-8 135821-03-3	0
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4- heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	93925-00-9	0
Octamethylcyclotetrasiloxane (D4)	556-67-2	0
Decamethylcyclopentasiloxane (D5)	541-02-6	0
Dodecamethylcyclohexasiloxane (D6)	540-97-6	0



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Lead	7439-92-1	0
Disodium octaborate	12008-41-2	0
Benzo[ghi]perylene	191-24-2	0
Terphenyl hydrogenated	61788-32-7	0
Ethylenediamine (EDA)	107-15-3	0
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0
Dicyclohexyl phthalate (DCHP)	84-61-7	0
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0
Benzo[k]fluoranthene	207-08-9	0
Fluoranthene	206-44-0	0
Phenanthrene	85-01-8	0
Pyrene	129-00-0	0
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0
2-methoxyethyl acetate	110-49-6	0
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4- nonylphenol, branched and linear (4-NP)	--	0
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--	0
4-tert-butylphenol	98-54-4	0
Diisohexyl phthalate	71850-09-4	0
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenon	119313-12-1	0
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one Perfluorobutane sulfonic acid (PFBS) and its salts	71868-10-5	0
1-vinylimidazole	1072-63-5	0
2-methylimidazole	693-98-1	0
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0
Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8	0
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety		0
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		0
Orthoboric acid, sodium salt	13840-56-7	0



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2,2-bis(bromomethyl)propane1,3-diol (BMP)	3296-90-0	0
2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	36483-57-5	0
2,3-dibromo-1-propanol (2,3-DBPA)	1522-92-5	0
Glutaral	111-30-8	0
Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17).		0
1,4-dioxane	123-91-1	0
4,4'-(1-methylpropylidene) bisphenol	77-40-7	0
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4- MBC)	--	0
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0
S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0
Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0
N-(hydroxymethyl)acrylamide	924-42-5	0
1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] (BTBPE)	37853-59-1	0
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	79-94-7	0
4,4'-sulphonyldiphenol (BPS)	80-09-01	0
Barium diboron tetraoxide	13701-59-2	0
Bis(2-ethylhexyl) tetrabromophthalate (TBPH) covering any of the individual isomers and/or combinations thereof.	-----	0
Isobutyl 4-hydroxybenzoate (IBP)	4247-02-03	0
Melamine	108-78-1	0
Perfluoroheptanoic acid (PFHpA) and its salts	-----	0
Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-----	0
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0
BIS (4-Chlorophenyl) Sulphone	80-07-9	0

This document also certifies that the materials declaration has been provided by **Bivar, Inc**, is accurate.



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A handwritten signature in purple ink, appearing to read "G. Olson".

Greg Olson
VP of Operations

A handwritten signature in black ink, appearing to read "K. Koneeski".

Koneeski Gregg,
Director of Quality

BV00-Q365 RoHS 3 REACH 235 Rev 061623