

'TORAY'

TORAY PLASTICS (MALAYSIA) SDN BERHAD (46619-P)

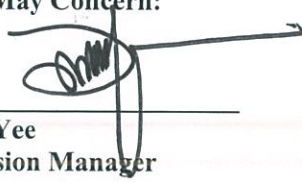
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To Whom It May Concern:

From :


KL Yee
Division Manager
Technical & Quality Division

Date: 5th January 2018

Dear Valued Customers,

Re: Non-Inclusion of SVHC in TORAYCON PBT Resin

We wish to express our deepest appreciation for your excellent support towards our TORAYCON PBT resin. Toray Plastics (Malaysia) Sdn. Bhd. (TPM) herein declares that all resin products as listed in **Table 1: TORAYCON PBT Resins** conform to the **Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) under the European Parliament and Council Regulation (EC) No 1907/2006**. Substances of Very High Concern (SVHC) (last updated: 7th July 2017), as listed in Table 2: Substances of Very High Concern (SVHC) below are not intentionally added in any production stage of our mentioned resin products, to best of our knowledge.

Table 1: TORAYCON PBT Resins

No.	Grade Name
1.	TORAYCON 1050M
2.	TORAYCON 1100M
3.	TORAYCON 1200M
4.	TORAYCON 1200MF

In view of the many factors that may affect processing and application of our products, these information do not relieve user from carrying out own investigation and test, neither do these data imply any guarantee, or warranty for certain properties, uses, suitability, safety, hazards or health effects. This information relates only to the above mentioned materials as delivered in their original packaging. Besides, it does not relate to any product made of these materials with or without the inclusion of further additives. Thus, TPM makes no warranties, express or implied and assumes no liabilities in any use of the information.

Should you need further clarification, please feel free to contact us.

Table 2: Substances of Very High Concern (SVHC)(Last updated: 7th July 2017)

No.	Substances	CAS No.
1	1,2,3-trichloropropane	96-18-4
2	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1
3	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4
5	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4
6	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
7	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2
8	1,2-Dichloroethane	107-06-2
9	1,2-Diethoxyethane	629-14-1
10	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4
11	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9
12	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
13	1,3-propanesultone	1120-71-4
14	1-bromopropane (n-propyl bromide)	106-94-5
15	1-Methyl-2-pyrrolidone (NMP)	872-50-4
16	2,2'-dichloro-4,4'-methylenedianiline	101-14-4
17	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
18	2,4-Dinitrotoluene	121-14-2
19	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
20	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
21	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
22	2-Ethoxyethanol	110-80-5
23	2-Ethoxyethyl acetate	111-15-9
24	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
25	2-Methoxyaniline, o-Anisidine	90-04-0
26	2-Methoxyethanol	109-86-4
27	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
28	4,4'-Diaminodiphenylmethane (MDA)	101-77-9
29	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1
30	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
31	4,4'-isopropylidenediphenol	80-05-7
32	4,4'-methylenedi-o-toluidine	838-88-0
33	4,4'-oxydianiline and its salts	101-80-4
34	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
35	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-
36	4-Aminoazobenzene	60-09-3
37	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]	-
38	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7

39	4-Nonylphenol, branched and linear [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]	-
40	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]	-
41	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]	-
42	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2
43	6-methoxy-m-toluidine (p-cresidine)	120-71-8
44	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9
45	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5
46	[Phthalato(2-)]dioxotrilead	69011-06-9
47	Acetic acid, lead salt, basic	51404-69-4
48	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	7738-94-5 13530-68-2
49	Acrylamide	79-06-1
50	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
51	Aluminosilicate Refractory Ceramic Fibres 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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	
52	Ammonium dichromate	7789-09-5
53	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
54	Anthracene	120-12-7
55	Anthracene oil	90640-80-5
56	Anthracene oil, anthracene paste	90640-81-6
57	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
58	Anthracene oil, anthracene paste, distn. lights	91995-17-4
59	Anthracene oil, anthracene-low	90640-82-7
60	Arsenic acid	7778-39-4
61	Benzo[def]chrysene	50-32-8
62	Benzyl butyl phthalate (BBP)	85-68-7
63	Biphenyl-4-ylamine	92-67-1
64	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7
65	Bis(2-methoxyethyl) ether	111-96-6
66	Bis(2-methoxyethyl) phthalate	117-82-8
67	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5
68	Bis(tributyltin) oxide (TBTO)	56-35-9

69	Boric acid	10043-35-3 11113-50-1
70	Cadmium	7440-43-9
71	Cadmium chloride	10108-64-2
72	Cadmium fluoride	7790-79-6
73	Cadmium oxide	1306-19-0
74	Cadmium sulphate	10124-36-4 31119-53-6
75	Cadmium sulphide	1306-23-6
76	Calcium arsenate	7778-44-1
77	Chromium trioxide	1333-82-0
78	Cobalt dichloride	7646-79-9
79	Cobalt(II) carbonate	513-79-1
80	Cobalt(II) diacetate	71-48-7
81	Cobalt(II) dinitrate	10141-05-6
82	Cobalt(II) sulphate	10124-43-3
83	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [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]	85-42-7 13149-00-3 14166-21-3
84	Diarsenic pentaoxide	1303-28-2
85	Diarsenic trioxide	1327-53-3
86	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3
87	Diboron trioxide	1303-86-2
88	Dibutyl phthalate (DBP)	84-74-2
89	Dibutyltin dichloride (DBTC)	683-18-1
90	Dichromium tris(chromate)	24613-89-6
91	Diethyl sulphate	64-67-5
92	Dihexyl phthalate	84-75-3
93	Diisobutyl phthalate	84-69-5
94	Diisopentylphthalate	605-50-5
95	Dimethyl sulphate	77-78-1
96	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
97	Dioxobis(stearato)trilead	12578-12-0
98	Dipentyl phthalate (DPP)	131-18-0
99	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
100	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
101	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3
102	Fatty acids, C16-18, lead salts	91031-62-8
103	Formaldehyde, oligomeric reaction products with aniline	25214-70-4
104	Formamide	75-12-7
105	Furan	110-00-9
106	Henicosaflluoroundecanoic acid	2058-94-8
107	Heptacosaflluorotetradecanoic acid	376-06-7

108	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4
		3194-55-6
		134237-50-6
		134237-51-7
109	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]	134237-52-8
		25550-51-0
		19438-60-9
		48122-14-1
110	Hydrazine	57110-29-9
		302-01-2
		7803-57-8
111	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
112	Lead bis(tetrafluoroborate)	13814-96-5
113	Lead chromate	7758-97-6
114	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
115	Lead cyanamidate	20837-86-9
116	Lead di(acetate)	301-04-2
117	Lead diazide, Lead azide	13424-46-9
118	Lead dinitrate	10099-74-8
119	Lead dipicrate	6477-64-1
120	Lead hydrogen arsenate	7784-40-9
121	Lead monoxide (lead oxide)	1317-36-8
122	Lead oxide sulfate	12036-76-9
123	Lead styphnate	15245-44-0
124	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
125	Lead titanium trioxide	12060-00-3
126	Lead titanium zirconium oxide	12626-81-2
127	Lead(II) bis(methanesulfonate)	17570-76-2
128	Methoxyacetic acid	625-45-6
129	Methyloxirane (Propylene oxide)	75-56-9
130	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
131	N,N-dimethylacetamide	127-19-5
132	N,N-dimethylformamide	68-12-2
133	N-methylacetamide	79-16-3
134	N-pentyl-isopentylphthalate	776297-69-9
135	Nitrobenzene	98-95-3
136	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2
		3108-42-7
		3830-45-3
137	o-aminoazotoluene	97-56-3
138	o-Toluidine	95-53-4
139	Orange lead (lead tetroxide)	1314-41-6
140	p-(1,1-dimethylpropyl)phenol	80-46-6
141	Pentacosafuorotridecanoic acid	72629-94-8
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1
143	Pentalead tetraoxide sulphate	12065-90-6
144	Pentazinc chromate octahydroxide	49663-84-5
145	Perfluorohexane-1-sulphonic acid and its salts	-
146	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1
		21049-39-8
		4149-60-4

147	Phenolphthalein	77-09-8
148	Pitch, coal tar, high temp.	65996-93-2
149	Potassium chromate	7789-00-6
150	Potassium dichromate	7778-50-9
151	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
152	Pyrochlore, antimony lead yellow	8012-00-8
153	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)	-
154	Silicic acid (H_2SiO_5), barium salt (1:1), lead-doped [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]	68784-75-8
155	Silicic acid, lead salt	11120-22-2
156	Sodium chromate	7775-11-3
157	Sodium dichromate	7789-12-0 10588-01-9
158	Sodium perborate, perboric acid, sodium salt	
159	Sodium peroxometaborate	7632-04-4
160	Strontium chromate	7789-06-2
161	Sulfurous acid, lead salt, dibasic	62229-08-7
162	Tetraboron disodium heptaoxide, hydrate	12267-73-1
163	Tetraethyllead	78-00-2
164	Tetralead trioxide sulphate	12202-17-4
165	Trichloroethylene	79-01-6
166	Tricosafuorododecanoic acid	307-55-1
167	Triethyl arsenate	15606-95-8
168	Trilead bis(carbonate) dihydroxide	1319-46-6
169	Trilead diarsenate	3687-31-8
170	Trilead dioxide phosphonate	12141-20-7
171	Tris(2-chloroethyl)phosphate	115-96-8
172	Trixylyl phosphate	25155-23-1
173	Zirconia Aluminosilicate Refractory Ceramic Fibres 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 ($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18% by weight	-
174	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0