

**TORAY**

# **TORAY PLASTICS (MALAYSIA) SDN BERHAD**

Company Reg. no.: 197901002368 (46619-P)

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To Whom It May Concern:

From :   
SK Teh  
Department Manager  
Technology Centre

Date: 15<sup>th</sup> March 2021

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: 19<sup>th</sup> January 2021), 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: 19<sup>th</sup> January 2021)

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 ( $\beta$ -TGIC)	59653-74-6
13.	1,3-propanesultone	1120-71-4
14.	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" <sup>TM</sup> )	-
15.	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8
16.	1-bromopropane (n-propyl bromide)	106-94-5
17.	1-Methyl-2-pyrrolidone (NMP)	872-50-4
18.	1-vinylimidazole	1072-63-5
19.	2,2'-dichloro-4,4'-methylenedianiline	101-14-4
20.	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
21.	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides, covering any of their individual isomers and combinations thereof	-
22.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
23.	2,4-Dinitrotoluene	121-14-2
24.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
25.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
26.	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
27.	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
28.	2-Ethoxyethanol	110-80-5
29.	2-Ethoxyethyl acetate	111-15-9
30.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
31.	2-Methoxyaniline, o-Anisidine	90-04-0
32.	2-Methoxyethanol	109-86-4
33.	2-Methoxyethyl acetate	110-49-6
34.	2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
35.	2-methylimidazole	693-98-1
36.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
37.	4,4'- Diaminodiphenylmethane (MDA)	101-77-9

38.	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
39.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
40.	4,4'-isopropylidenediphenol	80-05-7
41.	4,4'-methylenedi-o-toluidine	838-88-0
42.	4,4'-oxydianiline and its salts	101-80-4
43.	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
44.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-
45.	4-Aminoazobenzene	60-09-3
46.	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]	-
47.	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
48.	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]	-
49.	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]	-
50.	4-tert-butylphenol	98-54-4
51.	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]	-
52.	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2
53.	6-methoxy-m-toluidine (p-cresidine)	120-71-8
54.	[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
55.	[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
56.	[Phthalato(2-)]dioxotrilead	69011-06-9
57.	Acetic acid, lead salt, basic	51404-69-4
58.	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
59.	Acrylamide	79-06-1
60.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
61.	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 ( $\mu\text{m}$ ) 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	-

62.	Ammonium dichromate	7789-09-5
63.	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
64.	Anthracene	120-12-7
65.	Anthracene oil	90640-80-5
66.	Anthracene oil, anthracene paste	90640-81-6
67.	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
68.	Anthracene oil, anthracene paste, distn. lights	91995-17-4
69.	Anthracene oil, anthracene-low	90640-82-7
70.	Arsenic acid	7778-39-4
71.	Benz[a]anthracene	56-55-3 1718-53-2
72.	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7
73.	Benzo[def]chrysene	50-32-8
74.	Benzo[ghi]perylene	191-24-2
75.	Benzo[k]fluoranthene	207-08-9
76.	Benzyl butyl phthalate (BBP)	85-68-7
77.	Biphenyl-4-ylamine	92-67-1
78.	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7
79.	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8
80.	Bis(2-methoxyethyl) ether	111-96-6
81.	Bis(2-methoxyethyl) phthalate	117-82-8
82.	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5
83.	Bis(tributyltin) oxide (TBTO)	56-35-9
84.	Boric acid	10043-35-3 11113-50-1
85.	Butyl 4-hydroxybenzoate	94-26-8
86.	Cadmium	7440-43-9
87.	Cadmium Carbonate	513-78-0
88.	Cadmium chloride	10108-64-2
89.	Cadmium fluoride	7790-79-6
90.	Cadmium hydroxide	21041-95-2
91.	Cadmium nitrate	10022-68-1 10325-94-7
92.	Cadmium oxide	1306-19-0
93.	Cadmium sulphate	10124-36-4 31119-53-6
94.	Cadmium sulphide	1306-23-6
95.	Calcium arsenate	7778-44-1
96.	Chromium trioxide	1333-82-0
97.	Chrysene	218-01-9 1719-03-5
98.	Cobalt dichloride	7646-79-9
99.	Cobalt(II) carbonate	513-79-1
100.	Cobalt(II) diacetate	71-48-7
101.	Cobalt(II) dinitrate	10141-05-6
102.	Cobalt(II) sulphate	10124-43-3

103.	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
104.	Decamethylcyclopentasiloxane	541-02-6
105.	Diarsenic pentaoxide	1303-28-2
106.	Diarsenic trioxide	1327-53-3
107.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3
108.	Diboron trioxide	1303-86-2
109.	Dibutyl phthalate (DBP)	84-74-2
110.	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
111.	Dibutyltin dichloride (DBTC)	683-18-1
112.	Dichromium tris(chromate)	24613-89-6
113.	Dicyclohexyl phthalate	84-61-7
114.	Diethyl sulphate	64-67-5
115.	Dihexyl phthalate	84-75-3
116.	Diisobutyl phthalate	84-69-5
117.	Diisohexyl phthalate	71850-09-4
118.	Diisopentylphthalate	605-50-5
119.	Dimethyl sulphate	77-78-1
120.	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
121.	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	-
122.	Dioxobis(stearato)trilead	12578-12-0
123.	Dipentyl phthalate (DPP)	131-18-0
124.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
125.	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
126.	Disodium octaborate	12008-41-2
127.	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3
128.	Dodecamethylcyclohexasiloxane	540-97-6
129.	Ethylenediamine	107-15-3
130.	Fatty acids, C16-18, lead salts	91031-62-8
131.	Fluoranthene	206-44-0 93951-69-0
132.	Formaldehyde, oligomeric reaction products with aniline	25214-70-4
133.	Formamide	75-12-7
134.	Furan	110-00-9
135.	Henicosafleuroundecanoic acid	2058-94-8
136.	Heptacosafleurotetradecanoic acid	376-06-7
137.	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 134237-52-8

138.	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]	25550-51-0 19438-60-9 48122-14-1 57110-29-9
139.	Hydrazine	302-01-2 7803-57-8
140.	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
141.	Lead	7439-92-1
142.	Lead bis(tetrafluoroborate)	13814-96-5
143.	Lead chromate	7758-97-6
144.	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
145.	Lead cyanamidate	20837-86-9
146.	Lead di(acetate)	301-04-2
147.	Lead diazide, Lead azide	13424-46-9
148.	Lead dinitrate	10099-74-8
149.	Lead dipicrate	6477-64-1
150.	Lead hydrogen arsenate	7784-40-9
151.	Lead monoxide (lead oxide)	1317-36-8
152.	Lead oxide sulfate	12036-76-9
153.	Lead styphnate	15245-44-0
154.	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
155.	Lead titanium trioxide	12060-00-3
156.	Lead titanium zirconium oxide	12626-81-2
157.	Lead(II) bis(methanesulfonate)	17570-76-2
158.	Methoxyacetic acid	625-45-6
159.	Methyloxirane (Propylene oxide)	75-56-9
160.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
161.	N,N-dimethylacetamide	127-19-5
162.	N,N-dimethylformamide	68-12-2
163.	N-methylacetamide	79-16-3
164.	N-pentyl-isopentylphthalate	776297-69-9
165.	Nitrobenzene	98-95-3
166.	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3108-42-7 3830-45-3
167.	o-aminoazotoluene	97-56-3
168.	o-Toluidine	95-53-4
169.	Octamethylcyclotetrasiloxane	556-67-2
170.	Orange lead (lead tetroxide)	1314-41-6
171.	p-(1,1-dimethylpropyl)phenol	80-46-6
172.	Pentacosafuorotridecanoic acid	72629-94-8
173.	Pentadecafluorooctanoic acid (PFOA)	335-67-1
174.	Pentalead tetraoxide sulphate	12065-90-6
175.	Pentazinc chromate octahydroxide	49663-84-5
176.	Perfluorobutane sulfonic acid (PFBS) and its salts	-
177.	Perfluorohexane-1-sulphonic acid and its salts	-

178.	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
179.	Phenanthrene	85-01-8
180.	Phenolphthalein	77-09-8
181.	Pitch, coal tar, high temp.	65996-93-2
182.	Potassium chromate	7789-00-6
183.	Potassium dichromate	7778-50-9
184.	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
185.	Pyrene	129-00-0 1718-52-1
186.	Pyrochlore, antimony lead yellow	8012-00-8
187.	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)	-
188.	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-
189.	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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
190.	Silicic acid, lead salt	11120-22-2
191.	Sodium chromate	7775-11-3
192.	Sodium dichromate	7789-12-0 10588-01-9
193.	Sodium perborate,perboric acid, sodium salt	-
194.	Sodium peroxometaborate	7632-04-4
195.	Strontium chromate	7789-06-2
196.	Sulfurous acid, lead salt, dibasic	62229-08-7
197.	Terphenyl, hydrogenated	61788-32-7
198.	Tetraboron disodium heptaoxide, hydrate	12267-73-1
199.	Tetraethyllead	78-00-2
200.	Tetralead trioxide sulphate	12202-17-4
201.	Trichloroethylene	79-01-6
202.	Tricosafuorododecanoic acid	307-55-1
203.	Triethyl arsenate	15606-95-8
204.	Trilead bis(carbonate) dihydroxide	1319-46-6
205.	Trilead diarsenate	3687-31-8
206.	Trilead dioxide phosphonate	12141-20-7
207.	Tris(2-chloroethyl)phosphate	115-96-8
208.	Tris(4-nonylphenyl, brached and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and liner (4-NP)	-
209.	Trixylyl phosphate	25155-23-1

210. 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 ( $\mu\text{m}$ ). 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
211.  $\alpha,\alpha$ -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