

'TORAY'

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

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To Whom It May Concern:

From :



KL Yee
Department Manager
Technology Centre

Date: 17th June 2014

Dear Valued Customers,
Re: Non-Inclusion of SVHC in "TOYOLAC" Products

We wish to express our deepest appreciation for your excellent support towards our "TOYOLAC" ABS resin. Toray Plastics (Malaysia) Sdn. Bhd. (TPM), herein declares that "TOYOLAC" resins (Natural and Black colors) as listed in Table 1: "TOYOLAC" Resin Products 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 16 June 2014), 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.

In view of the many factors that may affect processing and application of our products, these data 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 1: "TOYOLAC" Resin Products

TYPES	GRADE NAME
Transparent MABS	"TOYOLAC" 920 555 "TOYOLAC" 900 352
	"TOYOLAC" 900 352A
General Purpose ABS	"TOYOLAC" 100 322 "TOYOLAC" 500 322
	"TOYOLAC" 100 X01 "TOYOLAC" 700 314
	"TOYOLAC" 250 X10 "TOYOLAC" 700 X01
	"TOYOLAC" 700 SG5
Glass Fiber Reinforced AS/ABS	"TOYOLAC" ABSG 100G-10 "TOYOLAC" ASG-10
	"TOYOLAC" ABSG 100G-20 "TOYOLAC" ASG-20
	"TOYOLAC" ABSG 100G-30 "TOYOLAC" ASG-30
High Heat ABS	"TOYOLAC" 430Y MH1 "TOYOLAC" 450Y MH1
	"TOYOLAC" 440Y MH1 "TOYOLAC" 450Y MH5
	"TOYOLAC" 440Y MH5 "TOYOLAC" 450Y X10
	"TOYOLAC" 470Y MH1
Chemical Resistant ABS	"TOYOLAC" AX05 X03 "TOYOLAC" AX05 X08
Painting ABS	"TOYOLAC" 100 MPF "TOYOLAC" 100 MPM
Plating ABS	"TOYOLAC" 325
AS	"TOYOLAC" A20C 333

**Table 2: Substances of Very High Concern (SVHC)
(Updated on 16 June 2014)**

No.	Substances	CAS Number
1.	Anthracene	120-12-7
2.	4,4'- Diaminodiphenylmethane (MDA)	101-77-9
3.	Dibutyl phthalate (DBP)	84-74-2
4.	Cobalt dichloride	7646-79-9
5.	Diarsenic pentaoxide	1303-28-2
6.	Diarsenic trioxide	1327-53-3
7.	Sodium dichromate	7789-12-0, 10588-01-9
8.	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
9.	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7
10.	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
11.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
12.	Bis(tributyltin)oxide (TBTO)	56-35-9
13.	Lead hydrogen arsenate	7784-40-9
14.	Triethyl arsenate	15606-95-8
15.	Benzyl butyl phthalate (BBP)	85-68-7
16.	Anthracene oil	90640-80-5
17.	Anthracene oil, anthracene paste, distn.lights	91995-17-4
18.	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
19.	Anthracene oil, anthracene-low	90640-82-7
20.	Anthracene oil, anthracene paste	90640-81-6
21.	Pitch, coal tar, high temp.	65996-93-2
22.	Acrylamide	79-06-1
23.	Aluminosilicate Refractory Ceramic Fibres	-
24.	Zirconia Aluminosilicate, Refractory Ceramic Fibres	-
25.	2,4-Dinitrotoluene	121-14-2
26.	Diisobutyl phthalate	84-69-5
27.	Lead chromate	7758-97-6
28.	Lead chromate molybdate sulphate red (C.I.Pigment Red 104)	12656-85-8
29.	Lead sulfochromate yellow (C.I.Pigment Yellow 34)	1344-37-2
30.	Tris(2-chloroethyl)phosphate	115-96-8
31.	Trichloroethylene	79-01-6
32.	Boric acid	10043-35-3, 11113-50-1
33.	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3
34.	Tetraboron disodium heptaoxide, hydrate	12267-73-1
35.	Sodium chromate	7775-11-3
36.	Potassium chromate	7789-00-6
37.	Ammonium dichromate	7789-09-5
38.	Potassium dichromate	7778-50-9
39.	Cobalt(II) sulphate	10124-43-3
40.	Cobalt(II) dinitrate	10141-05-6
41.	Cobalt(II) carbonate	513-79-1
42.	Cobalt(II) diacetate	71-48-7
43.	2-Methoxyethanol	109-86-4
44.	2-Ethoxyethanol	110-80-5
45.	Chromium trioxide	1333-82-0
46.	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 - 13530-68-2
47.	2-Ethoxyethyl acetate	111-15-9
48.	Strontium chromate	7789-06-2
49.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl ethers	68515-42-4

No.	Substances	CAS Number
50.	Hydrazine	302-01-2 7803-57-8
51.	1-Methyl-2-pyrrolidone	872-50-4
52.	1,2,3-Trichloropropane	96-18-4
53.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
54.	Dichromium tris (chromate)	24613-89-6
55.	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9
56.	Pentazinc chromate octahydroxide	49663-84-5
57.	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
58.	Bis(2-methoxyethyl) phthalate	117-82-8
59.	2-Methoxyaniline; o-Anisidine	90-04-0
60.	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
61.	1,2-Dichloroethane	107-06-2
62.	Bis(2-methoxyethyl) ether	111-96-6
63.	Arsenic acid	7778-39-4
64.	Calcium arsenate	7778-44-1
65.	Trilead diarsenate	3687-31-8
66.	N,N-dimethylacetamide (DMAC)	127-19-5
67.	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
68.	Phenolphthalein	77-09-8
69.	Lead azide and Lead diazide	13424-46-9
70.	Lead styphnate	15245-44-0
71.	Lead dipicrate	6477-64-1
72.	1,2-bis(methoxy)ethane (TEGDME; triglyme)	112-49-2
73.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
74.	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
75.	4,4'-bis(dimethylamino)benzophone (Michler's ketone)	90-94-8
76.	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-diene-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9
77.	4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5
78.	Diboron trioxide	1303-86-2
79.	Formamide	75-12-7
80.	Lead (II) bis(methanesulphonate)	17570-76-2
81.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
82.	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9
83.	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0
84.	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6
85.	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5
86.	Pentacosafuorotridecanoic acid	72629-94-8
87.	Tricosafuorododecanoic acid	307-55-1
88.	Henicosafuoroundecanoic acid	2058-94-8
89.	Heptafluorotetradecanoic acid	376-06-7
90.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-
91.	4-Nonylphenol, branched and linear	-
92.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
93.	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride)	85-42-7
94.	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9 48122-14-1, 57110-29-9
95.	Methoxy acetic acid	625-45-6
96.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
97.	Diisopentylphthalate (DIPP)	605-50-5
98.	N-pentyl-isopentylphthalate	-
99.	1,2-Diethoxyethane	629-14-1
100.	N,N-dimethylformamide; dimethylformamide	68-12-2
101.	Dibutyltin dichloride (DBT)	683-18-1
102.	Acetic acid, lead salt, basic	51404-69-4

No.	Substances	CAS Number
103.	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6
104.	Lead oxide sulfate (basic lead sulfate)	12036-76-9
105.	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9
106.	Dioxobis(stearato)trilead	12578-12-0
107.	Fatty acids, C16-18, lead salts	91031-62-8
108.	Lead bis(tetrafluoroborate)	13814-96-5
109.	Lead cyanamate	20837-86-9
110.	Lead dinitrate	10099-74-8
111.	Lead oxide (lead monoxide)	1317-36-8
112.	Lead tetroxide (orange lead)	1314-41-6
113.	Lead titanium trioxide	12060-00-3
114.	Lead titanium zirconium oxide	12626-81-2
115.	Pentalead tetraoxide sulphate	12065-90-6
116.	Pyrochlore, antimony lead yellow	8012-00-8
117.	Silicic acid, barium salt, lead-doped	68784-75-8
118.	Silicic acid, lead salt	11120-22-2
119.	Sulfurous acid, lead salt, dibasic	62229-08-7
120.	Tetraethyllead	78-00-2
121.	Tetralead trioxide sulphate	12202-17-4
122.	Trilead dioxide phosphonate	12141-20-7
123.	Furan	110-00-9
124.	Propylene oxide ; 1,2-epoxypropane; methyloxirane	75-56-9
125.	Diethyl sulphate	64-67-5
126.	Dimethyl sulphate	77-78-1
127.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
128.	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
129.	4,4'-methylenedi-o-toluidine	838-88-0
130.	4,4'-oxydianiline and its salts	101-80-4
131.	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3
132.	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7
133.	6-methoxy-m-toluidine (p-cresidine)	120-71-8
134.	Biphenyl-4-ylamine	92-67-1
135.	o-Aminoazotoluene	97-56-3
136.	o-Toluidine; 2-Aminotoluene	95-53-4
137.	N-methylacetamide	79-16-3
138.	1-Bromopropan; n-propyl bromide	106-94-5
139.	Pentadecafluorooctanoic acid (PFOA)	335-67-1
140.	Cadmium oxide	1306-19-0
141.	Ammoniumpentadecafluorootanoate (APFO)	3825-26-1
142.	Cadmium	7440-43-9
143.	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]	-
144.	Dipentyl phthalate (DPP)	131-18-0
145.	Cadmium sulphide	1306-23-6
146.	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
147.	Dihexyl phthalate	84-75-3
148.	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7
149.	Trixylyl phosphate	25155-23-1
150.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
151.	Lead di(acetate)	301-04-2
152.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
153.	Sodium perborate; perboric acid, sodium salt	-
154.	Sodium peroxometaborate	7632-04-4
155.	Cadmium chloride	10108-64-2