

TORAY


TORAY PLASTICS (MALAYSIA) SDN BERHAD

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

2628, MK. 1, SPT., Lorong Perusahaan 4, Prai Free Industrial Zone, 13600 Prai, Pulau Pinang, Malaysia.

Tel. No.: +6 04-3988088 (General Line), Fax No.: +6 04-3908975 (Sales/IPC Div.), Website: <http://www.torayplastics.com.my>

To Whom It May Concern:

From : 
SK Teh
General Manager
Technical & Quality Division

Date: 13th June 2022

Dear Valued Customers,

Re: Non-Inclusion of Prohibited Chemical Substances in TOYOLACTM Resin

We wish to express our deepest appreciation for your excellent support towards our TOYOLACTM resin. Toray Plastics (Malaysia) Sdn. Bhd. (TPM) herein declares that all resin products as listed in **Table 1: TOYOLACTM Resins** (Natural and Standard Black* color) supplied by our company to your company and any of its affiliates and subsidiaries follow and comply with the following requirements:

- RoHS Directive 2011/65/EU & Directive (EU) 2015/863
- REACH regulation EC No. 1907/2006
- Banned Phthalate Plasticizers 1999/815/EEC
- Montreal Protocol on Substances that Deplete the Ozone Layer
- Azo Dyes and Pigments Forming Specified Amines 2002/61/EC
- Conflict Mineral of Democratic Republic of the Congo
- Level 1 TPM Prohibited Substances

Chemical substances listed in **Attachment 1: List of Prohibited Chemical Substances (Rev. 25)**, are not intentionally added in any production stage of the mentioned TOYOLACTM resins, to best of our knowledge.

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 1: TOYOLAC™ Resins

TYPES	GRADE NAME	
Transparent MABS	TOYOLAC™ 920 555 TOYOLAC™ 900 352A TOYOLAC™ 912 X01 TOYOLAC™ 990 X88	TOYOLAC™ 920 555 U TOYOLAC™ 900 352A U TOYOLAC™ 912 X01 U TOYOLAC™ 900 352
General Purpose ABS	TOYOLAC™ 100 322 TOYOLAC™ 250 X10 TOYOLAC™ 700 314 TOYOLAC™ 600 X52 TOYOLAC™ 100 X01 TOYOLAC™ 700 X01	TOYOLAC™ 100 322 U TOYOLAC™ 250 X10 U TOYOLAC™ 700 314 U TOYOLAC™ 600 X52 U TOYOLAC™ 500 322 TOYOLAC™ 600 X50
Glass Fiber Reinforced AS/ABS	TOYOLAC™ ABSG 100G-10 TOYOLAC™ ABSG 100G-20 TOYOLAC™ ABSG 100G-30 TOYOLAC™ ABSG 100G-10T1	TOYOLAC™ ASG-10 TOYOLAC™ ASG-20 TOYOLAC™ ASG-30
High Heat ABS	TOYOLAC™ 440Y MH1 TOYOLAC™ 450Y MH1 TOYOLAC™ 450Y MH5 TOYOLAC™ 450Y X10 TOYOLAC™ 470Y MH1 TOYOLAC™ 420Y MH1 TOYOLAC™ 440Y MH5	TOYOLAC™ 440Y MH1 U TOYOLAC™ 450Y MH1 U TOYOLAC™ 450Y MH5 U TOYOLAC™ 450Y X10 U TOYOLAC™ 470Y MH1 U TOYOLAC™ 430Y MH1 TOYOLAC™ 460Y MH1
High Heat Glass Fiber Reinforced ABS	TOYOLAC™ 450G-10R TOYOLAC™ 450G-30R	TOYOLAC™ 450G-20R TOYOLAC™ 450G-20S
Chemical Resistant ABS	TOYOLAC™ AX05 X03	TOYOLAC™ AX05 X32
Painting ABS	TOYOLAC™ 100 MPF TOYOLAC™ 100 MPJ TOYOLAC™ 100 MPK	TOYOLAC™ 100 MPM TOYOLAC™ 100-MPH
High Heat Painting ABS	TOYOLAC™ 440Y X50	TOYOLAC™ 450Y X50
Plating ABS	TOYOLAC™ 315 X01 TOYOLAC™ 335 MPL	TOYOLAC™ 325
AS	TOYOLAC™ A20C 333 TOYOLAC™ A21C 333	TOYOLAC™ A37C 333 TOYOLAC™ A11C 333
Specialty Grades	TOYOLAC™ 450Y BM1 TOYOLAC™ 500 MX2	TOYOLAC™ 532 X02 TOYOLAC™ 700 SG5
Medical Grades	TOYOLAC™ 500 322M	TOYOLAC™ 250 X10M
Alloy Grades	TOYOLAC™ PX10 X06 TOYOLAC™ PX10 X07	TOYOLAC™ RFX10 X01 TOYOLAC™ VX10G20
ASA	TOYOLAC™ TA10 X01 TOYOLAC™ TA10 X02 TOYOLAC™ TA30 X01 TOYOLAC™ TA30 X02 TOYOLAC™ TA50 X01	TOYOLAC™ TA50 X02 TOYOLAC™ TA50C X50 TOYOLAC™ TA44 X50 TOYOLAC™ TA42C X01 TOYOLAC™ TA42 X02

* **Standard Black Color Code:** B0, B1, B2, B3, B4, B6, SB1, SB2, K1, K2, K3, LB001, LB002 and LB003.

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
Annex A : RoHS Directive 2011/65/EU and Directive (EU) 2015/863		
A01	-	Lead (Pb) and its compounds
A02	-	Mercury (Hg) and its compounds
A03	-	Cadmium (Cd) and its compounds
A04	-	Hexavalent chromium (Cr ⁶⁺) compounds
A05	-	Polybrominated biphenyls (PBB)
A06	-	Polybrominated diphenyl ethers (PBDE)
A07	117-81-7	Bis(2-ethylhexyl) phthalate (DEHP)
A08	85-68-7	Benzyl butyl phthalate (BBP)
A09	84-74-2	Dibutyl phthalate (DBP)
A10	84-69-5	Diisobutyl phthalate (DIBP)
Annex B : REACH Regulation EC No. 1907/2006		
B01	-	(±)-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)
B02	96-18-4	1,2,3-trichloropropane
B03	68515-51-5 68648-93-1	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)
B04	71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
B05	68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters
B06	68515-50-4	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear
B07	84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
B08	112-49-2	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)
B09	107-06-2	1,2-Dichloroethane
B10	629-14-1	1,2-Diethoxyethane
B11	110-71-4	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)
B12	2451-62-9	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)
B13	59653-74-6	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)
B14	1120-71-4	1,3-propanesultone
B15	123-91-1	1,4-dioxane
B16	-	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"™)
B17	15087-24-8	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one
B18	106-94-5	1-bromopropane (n-propyl bromide)
B19	872-50-4	1-Methyl-2-pyrrolidone (NMP)
B20	1072-63-5	1-vinylimidazole
B21	101-14-4	2,2'-dichloro-4,4'-methylenedianiline
B22	6807-17-6	2,2-bis(4'-hydroxyphenyl)-4-methylpentane
B23	1522-92-5 3296-90-0 36483-57-5 96-13-9	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)
B24	-	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides, covering any of their individual isomers and combinations thereof
B25	3864-99-1	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)
B26	121-14-2	2,4-Dinitrotoluene
B27	25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
B28	36437-37-3	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)
B29	80-54-6 75166-30-2 75166-31-3	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers
B30	3846-71-7	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
B31	119313-12-1	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
B32	110-80-5	2-Ethoxyethanol
B33	111-15-9	2-Ethoxyethyl acetate
B34	15571-58-1	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)
B35	90-04-0	2-Methoxyaniline,o-Anisidine
B36	109-86-4	2-Methoxyethanol
B37	110-49-6	2-Methoxyethyl acetate
B38	71868-10-5	2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
B39	693-98-1	2-methylimidazole
B40	143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
B41	101-77-9	4,4'- Diaminodiphenylmethane (MDA)
B42	77-40-7	4,4'-(1-methylpropylidene)bisphenol
B43	561-41-1	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)]
B44	90-94-8	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)
B45	80-05-7	4,4'-isopropylidenediphenol
B46	838-88-0	4,4'-methylenedi-o-toluidine
B47	101-80-4	4,4'-oxydianiline and its salts
B48	140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol
B49	-	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]
B50	60-09-3	4-Aminoazobenzene
B51	-	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]
B52	95-80-7	4-methyl-m-phenylenediamine (toluene-2,4-diamine)
B53	-	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]
B54	-	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]
B55	98-54-4	4-tert-butylphenol
B56	-	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]
B57	81-15-2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)
B58	119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
B59	120-71-8	6-methoxy-m-toluidine (p-cresidine)
B60	548-62-9	[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)]
B61	2580-56-5	[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)]
B62	69011-06-9	[Phthalato(2-)]dioxotrilead
B63	51404-69-4	Acetic acid, lead salt, basic

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
B64	7738-94-5 13530-68-2	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.
B65	79-06-1	Acrylamide
B66	85535-84-8	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
B67	-	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 (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight
B68	7789-09-5	Ammonium dichromate
B69	3825-26-1	Ammonium pentadecafluorooctanoate (APFO)
B70	120-12-7	Anthracene
B71	90640-80-5	Anthracene oil
B72	90640-81-6	Anthracene oil, anthracene paste
B73	91995-15-2	Anthracene oil, anthracene paste, anthracene fraction
B74	91995-17-4	Anthracene oil, anthracene paste, distn. lights
B75	90640-82-7	Anthracene oil, anthracene-low
B76	7778-39-4	Arsenic acid
B77	56-55-3 1718-53-2	Benz[a]anthracene
B78	552-30-7	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride
B79	50-32-8	Benzo[def]chrysene
B80	191-24-2	Benzo[ghi]perylene
B81	207-08-9	Benzo[k]fluoranthene
B82	85-68-7	Benzyl butyl phthalate (BBP)
B83	92-67-1	Biphenyl-4-ylamine
B84	117-81-7	Bis (2-ethylhexyl)phthalate (DEHP)
B85	143-24-8	Bis(2-(2-methoxyethoxy)ethyl) ether
B86	111-96-6	Bis(2-methoxyethyl) ether
B87	117-82-8	Bis(2-methoxyethyl) phthalate
B88	1163-19-5	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)
B89	56-35-9	Bis(tributyltin) oxide (TBTO)
B90	10043-35-3 11113-50-1	Boric acid
B91	94-26-8	Butyl 4-hydroxybenzoate
B92	7440-43-9	Cadmium
B93	513-78-0	Cadmium Carbonate
B94	10108-64-2	Cadmium chloride
B95	7790-79-6	Cadmium fluoride
B96	21041-95-2	Cadmium hydroxide
B97	10022-68-1 10325-94-7	Cadmium nitrate
B98	1306-19-0	Cadmium oxide
B99	10124-36-4 31119-53-6	Cadmium sulphate
B100	1306-23-6	Cadmium sulphide
B101	7778-44-1	Calcium arsenate
B102	1333-82-0	Chromium trioxide
B103	218-01-9 1719-03-5	Chrysene
B104	7646-79-9	Cobalt dichloride
B105	513-79-1	Cobalt(II) carbonate

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
B106	71-48-7	Cobalt(II) diacetate
B107	10141-05-6	Cobalt(II) dinitrate
B108	10124-43-3	Cobalt(II) sulphate
B109	85-42-7 13149-00-3 14166-21-3	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]
B110	541-02-6	Decamethylcyclopentasiloxane
B111	1303-28-2	Diarsenic pentaoxide
B112	1327-53-3	Diarsenic trioxide
B113	123-77-3	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)
B114	1303-86-2	Diboron trioxide
B115	84-74-2	Dibutyl phthalate (DBP)
B116	22673-19-4	Dibutylbis(pentane-2,4-dionato-O,O')tin
B117	683-18-1	Dibutyltin dichloride (DBTC)
B118	24613-89-6	Dichromium tris(chromate)
B119	84-61-7	Dicyclohexyl phthalate
B120	64-67-5	Diethyl sulphate
B121	84-75-3	Dihexyl phthalate
B122	84-69-5	Diisobutyl phthalate
B123	71850-09-4	Diisohexyl phthalate
B124	605-50-5	Diisopentylphthalate
B125	77-78-1	Dimethyl sulphate
B126	88-85-7	Dinoseb (6-sec-butyl-2,4-dinitrophenol)
B127	-	Diocyltin 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
B128	12578-12-0	Dioxobis(stearato)trilead
B129	131-18-0	Dipentyl phthalate (DPP)
B130	573-58-0	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)
B131	1937-37-7	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)
B132	12008-41-2	Disodium octaborate
B133	1303-96-4 1330-43-4 12179-04-3	Disodium tetraborate, anhydrous
B134	540-97-6	Dodecamethylcyclohexasiloxane
B135	107-15-3	Ethylenediamine
B136	91031-62-8	Fatty acids, C16-18, lead salts
B137	206-44-0 93951-69-0	Fluoranthene
B138	25214-70-4	Formaldehyde, oligomeric reaction products with aniline
B139	75-12-7	Formamide
B140	110-00-9	Furan
B141	111-30-8	Glutaral
B142	2058-94-8	Henicosfluoroundecanoic acid
B143	376-06-7	Heptacosfluorotetradecanoic acid
B144	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
B145	25550-51-0 19438-60-9 48122-14-1 57110-29-9	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]
B146	302-01-2 7803-57-8	Hydrazine
B147	96-45-7	Imidazolidine-2-thione (2-imidazoline-2-thiol)
B148	7439-92-1	Lead
B149	13814-96-5	Lead bis(tetrafluoroborate)
B150	7758-97-6	Lead chromate
B151	12656-85-8	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)
B152	20837-86-9	Lead cyanamidate
B153	301-04-2	Lead di(acetate)
B154	13424-46-9	Lead diazide, Lead azide
B155	10099-74-8	Lead dinitrate
B156	6477-64-1	Lead dipicrate
B157	7784-40-9	Lead hydrogen arsenate
B158	1317-36-8	Lead monoxide (lead oxide)
B159	12036-76-9	Lead oxide sulfate
B160	15245-44-0	Lead styphnate
B161	1344-37-2	Lead sulfochromate yellow (C.I. Pigment Yellow 34)
B162	12060-00-3	Lead titanium trioxide
B163	12626-81-2	Lead titanium zirconium oxide
B164	17570-76-2	Lead(II) bis(methanesulfonate)
B165	-	Medium-chain chlorinated paraffins (MCCP)
B166	625-45-6	Methoxyacetic acid
B167	75-56-9	Methyloxirane (Propylene oxide)
B168	101-61-1	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)
B169	127-19-5	N,N-dimethylacetamide
B170	68-12-2	N,N-dimethylformamide
B171	924-42-5	N-(hydroxymethyl)acrylamide
B172	79-16-3	N-methylacetamide
B173	776297-69-9	N-pentyl-isopentylphthalate
B174	98-95-3	Nitrobenzene
B175	335-76-2 3108-42-7 3830-45-3	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts
B176	97-56-3	o-aminoazotoluene
B177	95-53-4	o-Toluidine
B178	556-67-2	Octamethylcyclotetrasiloxane
B179	1314-41-6	Orange lead (lead tetroxide)
B180	13840-56-7	Orthoboric acid, sodium salt
B181	80-46-6	p-(1,1-dimethylpropyl)phenol
B182	72629-94-8	Pentacosafuorotridecanoic acid
B183	335-67-1	Pentadecafluorooctanoic acid (PFOA)
B184	12065-90-6	Pentalead tetraoxide sulphate
B185	49663-84-5	Pentazinc chromate octahydroxide
B186	-	Perfluorobutane sulfonic acid (PFBS) and its salts
B187	-	Perfluorohexane-1-sulphonic acid and its salts
B188	375-95-1 21049-39-8 4149-60-4	Perfluorononan-1-oic-acid and its sodium and ammonium salts
B189	85-01-8	Phenanthrene
B190	-	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)
B191	77-09-8	Phenolphthalein
B192	65996-93-2	Pitch, coal tar, high temp.

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
B193	7789-00-6	Potassium chromate
B194	7778-50-9	Potassium dichromate
B195	11103-86-9	Potassium hydroxyoctaoxodizincatedichromate
B196	129-00-0 1718-52-1	Pyrene
B197	8012-00-8	Pyrochlore, antimony lead yellow
B198	-	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)
B199	-	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)
B200	255881-94-8	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
B201	68784-75-8	Silicic acid (H ₂ Si ₂ O 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]
B202	11120-22-2	Silicic acid, lead salt
B203	7775-11-3	Sodium chromate
B204	7789-12-0 10588-01-9	Sodium dichromate
B205	-	Sodium perborate,perboric acid, sodium salt
B206	7632-04-4	Sodium peroxometaborate
B207	7789-06-2	Strontium chromate
B208	62229-08-7	Sulfurous acid, lead salt, dibasic
B209	61788-32-7	Terphenyl, hydrogenated
B210	12267-73-1	Tetraboron disodium heptaoxide, hydrate
B211	78-00-2	Tetraethyllead
B212	12202-17-4	Tetralead trioxide sulphate
B213	79-01-6	Trichloroethylene
B214	307-55-1	Tricosafuorododecanoic acid
B215	15606-95-8	Triethyl arsenate
B216	1319-46-6	Trilead bis(carbonate) dihydroxide
B217	3687-31-8	Trilead diarsenate
B218	12141-20-7	Trilead dioxide phosphonate
B219	115-96-8	Tris(2-chloroethyl)phosphate
B220	1067-53-4	Tris(2-methoxyethoxy)vinylsilane
B221	-	Tris(4-nonylphenyl, brached and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and liner (4-NP)
B222	25155-23-1	Trixylyl phosphate
B223	-	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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight
B224	6786-83-0	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)]
Annex C : Phthalate Plasticizers 1999/815/EEC		
C01	117-81-7	Di(2-ethylhexyl) phthalate (DEHP)

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
C02	26761-40-0	Di-iso-decyl phthalate (DIDP)
C03	28553-12-0	Di-iso-nonyl phthalate (DINP)
C04	84-74-2	Di-n-butyl phthalate (DBP)
C05	117-84-0	Di-n-octyl phthalate (DNOP)
C06	85-68-7	Butyl benzyl phthalate (BBP)
C07	84-75-3	Di-n-hexyl phthalate (DNHP)
Annex D: Conflict Minerals		
D01	-	Columbite-tantalite (Tantalum)
D02	-	Cassiterite (Tin)
D03	-	Wolframite (Tungsten)
D04	-	Gold
Annex E1 : Montreal Protocol on Substances that Deplete the Ozone Layer (Document A)		
Group I		
E01	CFCl ₃	Trichlorofluoromethane (CFC-11)
E02	CF ₂ Cl ₂	Dichlorodifluoromethane (CFC-12)
E03	C ₂ F ₃ Cl ₃	Trichlorotrifluoroethane (CFC-113)
E04	C ₂ F ₄ Cl ₂	Dichlorotetrafluoroethane (CFC-114)
E05	C ₂ F ₅ Cl	Chloropentafluoroethane (CFC-115)
Group II		
E06	CF ₂ BrCl	Bromochlorodifluoromethane (Halon 1211)
E07	CF ₃ Br	Bromotrifluoromethane (Halon 1301)
E08	C ₂ F ₄ Br ₂	Dibromotetrafluoroethane (Halon 2402)
Annex E2 : Montreal Protocol on Substances that Deplete the Ozone Layer (Document B)		
Group I		
E09	CF ₃ Cl	Chlorotrifluoromethane (CFC-13)
E10	C ₂ FCl ₅	Pentachlorofluoroethane (CFC-111)
E11	C ₂ F ₂ Cl ₄	Tetrachlorodifluoroethane (CFC-112)
E12	C ₃ FCl ₇	Heptachlorofluoropropane (CFC-211)
E13	C ₃ F ₂ Cl ₆	Hexachlorodifluoropropane (CFC-212)
E14	C ₃ F ₃ Cl ₅	Pentachlorotrifluoropropane (CFC-213)
E15	C ₃ F ₄ Cl ₄	Tetrachlorotetrafluoropropane (CFC-214)
E16	C ₃ F ₅ Cl ₃	Trichloropentafluoropropane (CFC-215)
E17	C ₃ F ₆ Cl ₂	Dichlorohexafluoropropane (CFC-216)
E18	C ₃ F ₇ Cl	Chloroheptafluoropropane (CFC-217)
Group II		
E19	CCl ₄	Tetrachloromethane (Carbon tetrachloride)
Group III		
E20	C ₂ H ₃ Cl ₃	1,1,1-Trichloroethane (Methyl chloroform)
Annex E3 : Montreal Protocol on Substances that Deplete the Ozone Layer (Document C)		
Group I		
E21	CHFC ₂	Dichlorofluoromethane (HCFC-21)
E22	CHF ₂ Cl	Chlorodifluoromethane (HCFC-22)
E23	CH ₂ FCI	Chlorofluoromethane (HCFC-31)
E24	C ₂ HFC ₄	Tetrachlorofluoroethane (HCFC-121)
E25	C ₂ HF ₂ Cl ₃	Trichlorofluoroethane (HCFC-122)
E26	C ₂ HF ₃ Cl ₂	Dichlorotrifluoroethane (HCFC-123)
E27	CHCl ₂ CF ₃	Dichlorotrifluoroethane (HCFC-123)
E28	C ₂ HF ₄ Cl	Chlorotetrafluoroethane (HCFC-124)
E29	CHFClCF ₃	Chlorotetrafluoroethane (HCFC-124)
E30	C ₂ H ₂ FC ₃	Trichlorofluoroethane (HCFC-131)
E31	C ₂ H ₂ F ₂ Cl ₂	Dichlorodifluoroethane (HCFC-132)
E32	C ₂ H ₂ F ₃ Cl	Chlorotrifluoroethane (HCFC-133)
E33	C ₂ H ₃ FC ₂	Dichlorofluoroethane (HCFC-141)
E34	CH ₃ CFCl ₂	Dichlorofluoroethane (HCFC-141b)
E35	C ₂ H ₃ F ₂ Cl	Chlorodifluoroethane (HCFC-142)

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
E36	CH ₃ CF ₂ Cl	Chlorodifluoroethane (HCFC-142b)
E37	C ₂ H ₄ FCI	Chlorofluoroethane (HCFC-151)
E38	C ₃ HFCl ₆	Hexachlorofluoropropane (HCFC-221)
E39	C ₃ HF ₂ Cl ₅	Pentachlorodifluoropropane (HCFC-222)
E40	C ₃ HF ₃ Cl ₄	Tetrachlorotrifluoropropane (HCFC-223)
E41	C ₂ HF ₄ Cl ₃	Trichlorotetrafluoropropane (HCFC-224)
E42	C ₃ HF ₅ Cl ₂	Dichloropentafluoropropane (HCFC-225)
E43	CF ₃ CF ₂ CHCl ₂	Dichloropentafluoropropane (HCFC-225ca)
E44	CF ₂ CICF ₂ CHCIF	Dichloropentafluoropropane (HCFC-225cb)
E45	C ₃ HF ₆ Cl	Chlorohexafluoropropane (HCFC-226)
E46	C ₃ H ₂ FCI ₅	Pentachlorofluoropropane (HCFC-231)
E47	C ₃ H ₂ F ₂ Cl ₄	Tetrachlorodifluoropropane (HCFC-232)
E48	C ₃ H ₂ F ₃ Cl ₃	Trichlorotrifluoropropane (HCFC-233)
E49	C ₃ H ₂ F ₄ Cl ₂	Dichlorotetrafluoropropane (HCFC-234)
E50	C ₃ H ₂ F ₅ Cl	Chloropentafluoropropane (HCFC-235)
E51	C ₃ H ₃ FCI ₄	Tetrachlorofluoropropane (HCFC-241)
E52	C ₃ H ₃ F ₂ Cl ₃	Trichlorodifluoropropane (HCFC-242)
E53	C ₃ H ₃ F ₃ Cl ₂	Dichlorotrifluoropropane (HCFC-243)
E54	C ₃ H ₃ F ₄ Cl	Chlorotetrafluoropropane (HCFC-244)
E55	C ₃ H ₄ FCI ₃	Trichlorofluoropropane (HCFC-251)
E56	C ₃ H ₄ F ₂ Cl ₂	Dichlorodifluoropropane (HCFC-252)
E57	C ₃ H ₄ F ₃ Cl	Chlorotrifluoropropane (HCFC-253)
E58	C ₃ H ₅ FCI ₂	Dichlorofluoropropane (HCFC-261)
E59	C ₃ H ₅ F ₂ Cl	Chlorodifluoropropane (HCFC-262)
E60	C ₃ H ₆ FCI	Chlorofluoropropane (HCFC-271)
Group II		
E61	CHFBr ₂	Dibromo-fluoromethane
E62	CHF ₂ Br	Dibromo-difluoromethane
E63	C ₂ HF ₂ Br ₃	Tribromo-difluoroethane
E64	C ₂ HF ₄ Br	Bromo-tetrafluoroethane
E65	C ₂ H ₂ F ₂ Br ₂	Dibromo-difluoroethane
E66	C ₂ H ₃ FBr ₂	Dibromo-fluoroethane
E67	C ₂ H ₄ FBr	Bromofluoroethane
E68	C ₃ HF ₂ Br ₅	Pentabromo-difluoropropane
E69	C ₃ HF ₄ Br ₃	Tribromo-tetrafluoropropane
E70	C ₃ HF ₆ Br	Bromo-hexafluoropropane
E71	C ₃ H ₂ F ₂ Br ₄	Tetrabromo-fluoropropane
E72	C ₃ H ₂ F ₄ Br ₂	Dibromo-tetrafluoropropane
E73	C ₃ H ₃ FBr ₄	Tetrabromo-fluoropropane
E74	C ₃ H ₃ F ₃ Br ₂	Dibromo-trifluoropropane
E75	C ₃ H ₄ FBr ₃	Tribromo-fluoropropane
E76	C ₃ H ₄ F ₃ Br	Bromo-trifluoropropane
E77	C ₃ H ₅ F ₂ Br	Bromo-difluoropropane
E78	CH ₂ FBr	Bromo-fluoromethane
E79	C ₂ HFBBr ₄	Tetrabromo-fluoroethane
E80	C ₂ HF ₃ Br ₂	Dibromo-trifluoroethane
E81	C ₂ H ₂ FBr ₃	Tribromo-fluoroethane
E82	C ₂ H ₂ F ₃ Br	Bromo-trifluoroethane
E83	C ₂ H ₃ F ₂ Br	Bromo-difluoroethane
E84	C ₃ HFBBr ₆	Hexabromo-fluoropropane
E85	C ₃ HF ₃ Br ₄	Tetrabromo-trifluoropropane
E86	C ₃ HF ₅ Br ₂	Dibromo-pentafluoropropane

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
E87	C ₃ H ₂ FBr ₅	Pentabromo-fluoropropane
E88	C ₃ H ₂ F ₃ Br ₃	Tribromo-trifluoropropane
E89	C ₃ H ₂ F ₅ Br	Bromo-pentafluoropropane
E90	C ₃ H ₃ F ₂ Br ₃	Tribromo-difluoropropane
E91	C ₃ H ₃ F ₄ Br	Bromo-tetrafluoropropane
E92	C ₃ H ₄ F ₂ Br ₂	Dibromo-difluoropropane
E93	C ₃ H ₅ FBr ₂	Dibromo-fluoropropane
E94	C ₃ H ₆ FBr	Bromo-fluoropropane
Group III		
E95	CH ₂ BrCl	Bromochloromethane
Annex E4 : Montreal Protocol on Substances that Deplete the Ozone Layer (Document E)		
E96	CH ₃ Br	Bromomethane
Annex F: Azo Dyes and Pigments Forming Specified Amines 2002/61/EC		
F01	60-09-3	4-Amino azobenzene
F02	90-04-0	o-Anisidine 2-Methoxyaniline
F03	91-59-8	2-Naphthylamine
F04	91-94-1	3,3'-Dichlorobenzidine 3,3'-Dichlorobiphenyl-4,4'-ylenediamine
F05	92-67-1	Biphenyl-4-ylamine 4-Aminobiphenyl Xenylamine
F06	92-87-5	Benzidine
F07	95-53-4	o-Toluidine 2-Aminotoluene
F08	95-69-2	4-Chloro-o-toluidine
F09	95-80-7	4-Methyl-m-phenylenediamine
F10	97-56-3	o-Aminoazotoluene 4-Amino-2',3-dimethylazobenzene 4-o-Tolylazo-o-toluidine
F11	99-55-8	5-Nitro-o-toluidine
F12	101-14-4	4,4'-Methylene-bis-(2-chloro-aniline) 2,2'-Dichloro-4,4'-methylene-dianiline
F13	101-77-9	4,4'-Methylenedianiline 4,4'-Diaminodiphenylmethane
F14	101-80-4	4,4'-Oxydianiline
F15	106-47-8	4-Chloroaniline
F16	119-90-4	3,3'-Dimethoxybenzidine o-Dianisidine
F17	119-93-7	3,3'-Dimethylbenzidine 4,4'-Bi-o-toluidine
F18	120-71-8	6-Methoxy-m-toluidine p-Cresidine
F19	137-17-7	2,4,5-Trimethylaniline
F20	139-65-1	4,4'-Thiodianiline
F21	615-05-4	4-Methoxy-m-phenylenediamine
F22	838-88-0	4,4'-Methylenedi-o-toluidine
Annex G: Level 1 TPM Prohibited Substances		
G01	107-06-2	1,2-Dichloroethane
G02	542-75-6	1,3-Dichloropropene (Telone)
G03	3173-72-6	1,5-Naphthalene diisocyanate
G04	-	2,2,3,3,4,5,5-Heptafluoro-4-(perfluorobutyl)oxolane or 2,2,3,3,4,4,5-Heptafluoro-4-(perfluorobutyl)oxolane
G05	3846-71-7	2-(2H-1,2,3-benzotriazole-2-yl)-4,6-di-tert-butylphenol
G06	732-26-3	2,4,6-Tri-tert-butylphenol
G07	80-05-7	4,4'-Dihydroxy-2,2-diphenylpropane (Bisphenol A)
G08	92-93-3	4-Nitrobiphenyls

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
G09	309-00-2	Aldrin (= 1 α ,2,3,4 α ,10,10-Hexachloro-1,4,4a β ,5 β ,8 β ,8a β -hexahydro-1 β ,4 β :5 α ,8 α -dimethanonaphthalene)
G10	12172-73-5	Amosit
G11	1331-21-4	Asbestos
G12	-	Azo compounds (Compounds that might produce substances in Annex F after degradation)
G13	71-43-2	Benzene
G14	-	Beryllium (Be) and its compounds
G15	542-88-1	Bis(chloromethyl) ether
G16	57-74-9	Chlordane
G17	3734-48-3, 76-44-8	Chlordene or Heptachlor and their mixture
G18	-	Chlorinated paraffin
G19	108-90-7	Chlorobenzene
G20	2921-88-2	Chlorpyrifos (= Phosphorothioic acid O,O-diethyl O-(3,5,6-trichloro-2-pyridyl))
G21	156-59-2	Cis-1,2-dichloroethylene
G22	-	Cobalt (Co) and its compounds
G23	12001-28-4	Crocidolite
G24	50-29-3	DDT (4,4'-Dichlorodiphenyltrichloroethane)
G25	-	Dibutyltin (DBT) compounds
G26	75-09-2	Dichloromethane
G27	115-32-2	Dicofol
G28	60-57-1	Dieldrin
G29	84-66-2	Diethyl phthalate
G30	624-49-7	Dimethyl fumarate (DMF)
G31	-	Diocetyl tin (DOT) compounds
G32	72-20-8	Endrin
G33	106-89-8	Epichlorohydrin
G34	50-00-0	Formaldehyde
G35	118-74-1	Hexachlorobenzene
G36	87-68-3	Hexachlorobutadiene
G37	2385-85-5	Mirex
G38	-	N,N'-ditolyl-p-phenylenediamine
G39	-	N,N'-dixylyl-p-phenylenediamine
G40	91-20-3	Naphthalene
G41	7440-02-0	Nickel (Ni) and its compounds
G42	-	N-tolyl-N-xyllyl-p-phenylenediamine
G43	27417-40-9,	N,N'-Ditolyl-p-phenylenediamine compounds or N-(Dimethylphenyl)-N'-(tolylphenyl)-p-phenylenediamine compounds or N,N'-bis(Dimethylphenyl)-p-phenylenediamine compounds
G44	-	Hydrofluorocarbons (HFC) and Perfluorocarbons (PFC)
G45	-	Organic brominated compounds other than PBB and PBDE
G46	14797-73-0	Perchlorate
G47	1763-23-1	Perfluorooctane sulfonate and its salts (PFOS)
G48	335-67-1	Perfluorooctanoic acid
G49	307-55-1	Perfluorododecanoic acid
G50	72629-94-8	Perfluorotridecanoic acid
G51	376-06-7	Perfluorotetradecanoic acid
G52	-	Perfluoropentadecanoic acid
G53	67905-19-5	Perfluorohexadecanoic acid
G54	335-57-9	Perfluoroheptane
G55	307-34-6	Perfluorooctane
G56	-	Polychlorinated biphenyls (PCB)
G57	-	Polychlorinated naphthalene (PCN) (3 or more chlorine atoms)
G58	61788-33-8	Polychlorinated terphenyls (PCT)
G59	-	Polycyclic aromatic hydrocarbons (PAH)
G60	-	Polyvinylchloride (PVC) and its mixtures
G61	-	Radioactive substances

List of Prohibited Chemical Substances

No.	CAS No./ Chemical Formula	Substance
G62	-	Rubber cement containing benzene beyond 5wt%
G63	2551-62-4	Sulfur hexafluoride (SF6)
G64	127-18-4	Tetrachloroethylene (Perchloroethylene)
G65	12185-10-3	Yellow phosphorus
G66	62-56-6	Thiourea
G67	8001-35-2	Toxaphene
G68	-	Tributyl tin compounds and Triphenyl tin compounds
G69	13674-84-5	Tris(1-chloro-2-propyl)phosphate (TCPP)
G70	13674-87-8	Tris(1,3-dichloro-2-propyl)phosphate (TDCP)
G71	75-01-4	Vinyl chloride
G72	75-35-4	Vinylidene chloride
G73	1330-20-7	Xylene
G74	7723-14-0	Red phosphorus
G75	3864-99-1	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)
G76	3846-71-7	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
G77	25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
G78	36437-37-3	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)
G79	68937-41-7	Phenol, isopropylated phosphate (3:1) (PIP (3:1))
G80	133-49-3	Pentachlorothiophenol (PCTP)