

Statement on REACH Articles Provisions from Performance Motion Devices, Integrated Circuit Products

This document outlines Performance Motion Devices (PMD)'s current understanding of obligations for communication of substances of very high concern in articles and disclosure of PMD's actions to appropriately address such requirements.

With regard to the Substances of Very High Concern (SVHC) candidate list published on the European Chemicals Agency (ECHA) website, based on information from our suppliers and internal chemical screening processes PMD products do not contain any of the SVHC candidates listed herein above the regulatory threshold of 0.1% in PMD Integrated Circuit (IC) devices or development vehicles such as evaluation modules. PMD is currently engaging with its suppliers to obtain additional information and assurances.

The following list of SVHC candidates was last updated by ECHA on January 23, 2024:

Substance Category Name	CAS number(s) published by ECHA	EC number	Identification as a Basic SVHC
<i>Initial: REACH Candidate List on 28 October 2008</i>			
Triethyl arsenate	15606-95-8	427-700-2	Carcinogenic, article 57a
Sodium dichromate, dihydrate	7789-12-0, 01588-01-9	234-190-3	Carcinogenic and toxic for reproduction, article 57a & 57a & 57c
Lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogenic and toxic for reproduction, article 57a & 57a, 57b & 57c
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	247-148-4 221-695-9	PBT, article 57d
Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction, article 57c
Diarsenic trioxide	1327-53-3	215-481-4	Carcinogenic, article 57a
Diarsenic pentoxide	1303-28-2	215-116-9	Carcinogenic, article 57a
Tributyl tin oxide (TBTO)	56-35-9	200-268-0	PBT, article 57d
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	Toxic for reproduction, article 57c
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction, article 57c
Anthracene	120-12-7	204-371-1	PBT, article 57d
Alkanes, Shortchain Chlorinated Paraffins (C10 - C13)	85535-84-8	287-476-5	PBT and vPvB, article 57d & e
5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	201-329-4	vPvB, article 57e
4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogenic, article 57a
Cobalt dichloride (CoCl ₂)	7646-79-9	231-589-4	Carcinogenic and toxic for reproduction, article 57a & 57c <i>Also Included on REACH SVHC List 2011/06/2</i>

Update: REACH Candidate List on 13 January 2010			
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	204-118-5	Toxic for reproduction (Article 57c)
Coal tar pitch, high temperature	65996-93-2	266-028-2	Carcinogenic, PBT and vPvB, articles a, d & e
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	Carcinogenic toxic for reproduction, article 57a & 57c
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	Carcinogenic and toxic for reproduction, article 57a & 57c
Lead chromate	7758-97-6	231-846-0	Carcinogenic and toxic for reproduction, article 57a & 57c
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	Toxic for reproduction (Article 57c)
Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil, anthracene paste	90640-81-6	292-603-2	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil, anthracene-low	90640-82-7	292-604-8	Carcinogenic, Mutagenic, PBT and vPvB, articles a, b, d & e
Anthracene oil	90640-80-5	292-602-7	Carcinogenic, PBT and vPvB, articles a, d & e
2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogenic, article 57a
Update: REACH Candidate List on 30 March 2010			
Acrylamide	79-06-1	201-173-7	Carcinogenic and mutagenic, article 57a & 57b
Update: REACH Candidate List on 18 June 2010			
Sodium chromate	7775-11-3	231-889-5	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Potassium chromate	7789-00-6	232-140-5	Carcinogenic, mutagenic, article 57a & 57b
Ammonium dichromate	7789-09-5	232-143-1	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Potassium dichromate	7778-50-9	231-906-6	Carcinogenic, mutagenic and toxic for reproduction, article 57a, 57b & 57c
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	Toxic for reproduction (Article 57c)
Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	Toxic for reproduction (Article 57c)
Boric acid	10043-35-3, 11113-50-1	233-139-2, 234-343-4	Toxic for reproduction (Article 57c)
Trichloroethylene	79-01-6	201-167-4	Carcinogenic, article 57a
Update: REACH Candidate List on 15 December 2010			
Chromium Trioxide	1333-82-0	215-607-8	Carcinogenic and mutagenic, article 57a & 57b
Acids generated from chromium trioxide and their oligomers. <i>Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.</i>	7738-94-5, 13530-68-2	231-801-5, 236-881-5	Carcinogenic, article 57a
2-Ethoxyethanol	110-80-5	203-804-1	Toxic for reproduction (Article 57c)
2-Methoxyethanol	109-86-4	203-713-7	Toxic for reproduction (Article 57c)
Cobalt (II) Diacetate	71-48-7	200-755-8	Carcinogenic and toxic for reproduction, article 57a & 57C
Cobalt (II) Carbonate	513-79-1	208-169-4	Carcinogenic and toxic for reproduction, article 57a & 57C
Cobalt (II) Dinitrate	10141-05-6	233-402-1	Carcinogenic and toxic for reproduction, article 57a & 57C
Cobalt (II) Sulphate	10124-43-3	233-334-2	Carcinogenic and toxic for reproduction, article 57a & 57c
Update: REACH Candidate List on 20 June 2011			

1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	Toxic for reproduction (Article 57c)
1,2,3-Trichloropropane	96-18-4	202-486-1	Carcinogenic and toxic for reproduction, article 57a & 57C
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	Toxic for reproduction (Article 57c)
Hydrazine	302-01-2, 7803-57-8	206-114-9	Carcinogenic, article 57a
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich(DIHP)	71888-89-6	276-158-1	Toxic for reproduction (Article 57c)
Strontium chromate	7789-06-2	232-142-6	Carcinogenic, article 57a
2-Ethoxyethyl acetate	111-15-9	203-839-2	Toxic for reproduction (Article 57c)
Update: REACH Candidate List on 19 December 2011			
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	Carcinogenic, article 57a
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction (Article 57c)
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Toxic for reproduction (Article 57c)
Calcium arsenate	7778-44-1	231-904-5	Carcinogenic, article 57 a
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Carcinogenic, article 57 a
Lead dipicrate	6477-64-1	229-335-2	Toxic for reproduction (Article 57c)
N,N-dimethylacetamide	127-19-5	204-826-4	Toxic for reproduction (Article 57c)
Arsenic acid	7778-39-4	231-901-9	Carcinogenic, article 57 a
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic, article 57 a
Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic and toxic for reproduction, article 57a & 57C
1,2-dichloroethane	107-06-2	203-458-1	Carcinogenic, article 57 a
Pentazinc chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic, article 57 a
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	Carcinogenic, article 57 a
4-(1,1,3,3-tetramethylbutyl) phenol	140-66-9	205-426-2	Equivalent level of concern having probable serious effects to the environment, article 57 f
Lead diazide, Lead azide	13424-46-9	236-542-1	Toxic for reproduction (Article 57c)
Phenolphthalein	77-09-8	201-004-7	Carcinogenic, article 57 a
Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic, article 57 a
Lead styphnate	15245-44-0	239-290-0	Toxic for reproduction (Article 57c)
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 aluminum, 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	No CAS number(s) provided	No ES number(s) provided	Carcinogenic, article 57a Was also on REACH SVHC list published 13/01/2010
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	No CAS number(s) provided	No ES number(s) provided	Carcinogenic, article 57 Was also on REACH SVHC list published 13/01/2010

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			
Update: REACH Candidate List on 18 June 2012			
Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction (Article 57c)
Lead (II) bis(methanesulfonate)	17570-76-2	401-750-5	Toxic for reproduction (Article 57c)
1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction (Article 57c)
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Toxic for reproduction (Article 57c)
Formamide	75-12-7	200-842-0	Toxic for reproduction (Article 57c)
1,3,5-tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	Mutagenic (Article 57b)
1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (B-TGIC)	59653-74-6	423-400-0	Mutagenic (Article 57b)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic, article 57a
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic (Article 57a)
[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride C.I. Basic Blue 26) [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	219-943-6	Carcinogenic, article 57a
a,a-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8	Carcinogenic (Article 57a)
[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	208-953-6	Carcinogenic (Article 57a)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with greater than or equal to 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	209-218-2	Carcinogenic, article 57a
Update: REACH Candidate List on 19 December 2012			
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Toxic for reproduction (Article 57c)
6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic (Article 57a)
Henicosafuoroundecanoic acid	2058-94-8	218-165-4	vPvB (Article 57 e)
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	247-094-1, 243-072-0, 256-356-4, 260-566-1	Equivalent level of concern having probable serious effects to human health (Article 57 f)
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 transomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	Equivalent level of concern having probable serious effects to human health (Article 57 f)
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Toxic for reproduction (Article 57c)

Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Toxic for reproduction (Article 57c)
Lead dinitrate	10099-74-8	233-245-9	Toxic for reproduction (Article 57c)
Silicic acid, lead salt	11120-22-2	234-363-3	Toxic for reproduction (Article 57c)
4-Aminoazobenzene	60-09-3	200-453-6	Carcinogenic (Article 57a)
Lead titanium zirconium oxide	12626-81-2	235-727-4	Toxic for reproduction (Article 57c)
Lead monoxide (lead oxide)	1317-36-8	215-267-0	Toxic for reproduction (Article 57c)
o-Toluidine	95-53-4	202-429-0	Carcinogenic (Article 57a)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction (Article 57c)
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]	68784-75-8	272-271-5	Toxic for reproduction (Article 57c)
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Toxic for reproduction (Article 57c)
Furan	110-00-9	203-727-3	Carcinogenic (Article 57a)
N,N-dimethylformamide	68-12-2	200-679-5	Toxic for reproduction (Article 57c)
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	Equivalent level of concern having probable serious effects to human health (Article 57 f)
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]	-	-	Equivalent level of concern having probable serious effects to human health (Article 57 f)
4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	Carcinogenic (Article 57a)
Diethyl sulphate	64-67-5	200-589-6	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic (Article 57a)
Lead oxide sulfate	12036-76-9	234-853-7	Toxic for reproduction (Article 57c)
Lead titanium trioxide	12060-00-3	235-038-9	Toxic for reproduction (Article 57c)
Acetic acid, lead salt, basic	51404-69-4	257-175-3	Toxic for reproduction (Article 57c)
[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Toxic for reproduction (Article 57c)
Bis(pentabromophenyl)ether decabromodiphenyl ether; DecaBDE	1163-19-5	214-604-9	PBT (Article 57 d); vPvB (Article 57 e)
N-methylacetamide	79-16-3	201-182-6	Toxic for reproduction (Article 57c)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	Toxic for reproduction (Article 57c)
1,2-Diethoxyethane	629-14-1	211-076-1	Toxic for reproduction (Article 57c)
Tetralead trioxide sulphate	12202-17-4	235-380-9	Toxic for reproduction (Article 57c)
N-pentyl-isopentylphthalate	776297-69-9	-	Toxic for reproduction (Article 57c)
Dioxobis(stearato)trilead	12578-12-0	235-702-8	Toxic for reproduction (Article 57c)
Tetraethyllead	78-00-2	201-075-4	Toxic for reproduction (Article 57c)
Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Toxic for reproduction (Article 57c)
Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	vPvB (Article 57 e)
Tricosafuorododecanoic acid	307-55-1	206-203-2	vPvB (Article 57 e)

Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	vPvB (Article 57 e)
1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Toxic for reproduction (Article 57c)
Methoxyacetic acid	625-45-6	210-894-6	Toxic for reproduction (Article 57c)
4-methyl-m-phenylenediamine (toluene-,4diamine)	95-80-7	202-453-1	Carcinogenic (Article 57a)
Methyloxirane (Propylene oxide)	75-56-9	200-879-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Trilead dioxide phosphonate	12141-20-7	235-252-2	Toxic for reproduction (Article 57c)
o-aminoazotoluene	97-56-3	202-591-2	Carcinogenic (Article 57a)
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Toxic for reproduction (Article 57c)
4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Orange lead (lead tetroxide)	1314-41-6	215-235-6	Toxic for reproduction (Article 57c)
Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic (Article 57a)
Diisopentylphthalate (DIPP)	605-50-5	210-088-4	Toxic for reproduction (Article 57c)
Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Toxic for reproduction (Article 57c)
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	204-650-8	Equivalent level of concern having probable serious effects to human health (Article 57 f)
Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Toxic for reproduction (Article 57c)
Lead cyanamidate	20837-86-9	244-073-9	Toxic for reproduction (Article 57c)
Update: REACH Candidate List on 20 June 2013			
Cadmium	7440-43-9	231-152-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)
Cadmium oxide	1306-19-0	215-146-2	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	Toxic for reproduction (Article 57c); PBT (Article 57d)
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Toxic for reproduction (Article 57c); PBT (Article 57d)
Dipentyl phthalate (DPP)	131-18-0	205-017-9	Toxic for reproduction (Article 57c)
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]	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57f)
Update: REACH Candidate List on 16 December 2013			
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	217-710-3	Carcinogenic (Article 57a)
Trixylyl phosphate	25155-23-1	246-677-8	Toxic for reproduction (Article 57c)
Disodium 3,3'-[[1,1'-biphenyl]-4,4'- diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	Carcinogenic (Article 57a)
Dihexyl phthalate	84-75-3	201-559-5	Toxic for reproduction (Article 57c)

Imidazolidine-2-thione; (2-imidazoline-2- thiol)	96-45-7	202-506-9	Toxic for reproduction (Article 57c)
Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57f)
Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction (Article 57c)
Update: REACH Candidate List on 16 June 2014			
1,2-Benzenedicarboxylic ester, branched and linear acid, dihexyl	68515-50-4	271-093-5	Toxic for reproduction (Article 57c)
Cadmium chloride	10108-64-2	233-296-7	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	Toxic for reproduction (Article 57c)
Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction (Article 57c)
Update: REACH Candidate List on 17 Dec 2014			
Cadmium fluoride	7790-79-6	232-222-0	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)
Cadmium sulfate	10124-36-4 31119-53-6	233-331-6	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
2-Benzotriazol-2-yl-4, 6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	PBT (Article 57d); vPvB (Article 57e)
2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	PBT (Article 57d); vPvB (Article 57e)
2-ethylhexyl 10-ethyl-4,4-diocetyl-7-oxo-8- oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article) 57c)
Reaction mass of 2-ethylhexyl 10-ethyl-4,4- dloctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-Il2[(2-ethylhexyl) oxy]-2-oxoethyl) thio]-4-octyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	Toxic for reproduction (Article) 57c)
Update: REACH Candidate List on 15 Jun 2015			
1,2-benzenedicarboxylic acid, di-C6-10- alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with greater than or equal to 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	201-559-5	Toxic for reproduction (Article 57c)
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]	-	-	vPvB (Article 57e)
Update: REACH Candidate List on 17 Dec 2015			
Nitrobenzene	98-95-3	202-716-0	Toxic for reproduction (Article 57 c)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-	3864-99-1	223-383-8	vPvB (Article 57 e)

yl)phenol (UV-327)			
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	vPvB (Article 57 e)
1,3-propanesultone	1120-71-4	214-317-9	Carcinogenic (Article 57 a)
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
Update: REACH Candidate List on 20 June 2016			
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)
Update: REACH Candidate List on 12 January 2017			
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	Toxic for reproduction (Article 57c)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 221-470-5	Toxic for reproduction (Article 57c) PBT (Article 57d)
p-(1,1-dimethylpropyl) phenol	80-46-6	201-280-9	Equivalent level of concern having probable serious effects to environment (Article 57f)
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]	-	-	Equivalent level of concern having probable serious effects to environment (Article 57f)
Update: REACH Candidate List on 7 July 2017			
Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-	vPvB (Article 57e)
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	Endocrine disrupting properties (Article 57(f) - human health)
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Endocrine disrupting properties (Article 57(f) - human health)
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	Endocrine disrupting properties (Article 57(f) - human health)
Dibutyl phthalate (DBP)	84-74-2	201-557-4	Endocrine disrupting properties (Article 57(f) - human health)
Update: REACH Candidate List on 15 January 2018			
Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
Cadmium carbonate	513-78-0	208-168-9	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
Cadmium hydroxide	21041-95-2	244-168-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6	Carcinogenic (Article 57a)

			Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) – human health)
Chrysene	218-01-9, 1719-03-5	205-923-4	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,1 0] octadec a-7 15-diene ("Dechlorane Plus"™)		----	vPvS (Article 57e)
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear CRP-HP1	----	----	Endocrine disrupting properties (Article 57(r) environment)
Update: REACH Candidate List on 27 June 2018			
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0	Respiratory sensitizing properties (Article 57(f) - human health)
Benzorahll oerylene	191-24-2	205-883-8	PBT (Article 57d) vPvB (Article 57e)
Decamethylvlcvcloentaslloxane	541-02-6	208-764-9	PBT (Article 57d) vPvB (Article 57e)
Dicyclohexyl phthalate	84-61-7	201-545-9	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57m - human health)
Disodium octaborate	12008-41-2	234-541-0	Toxic for reproduction (Article 57c)
Dodecamethylcvd ohexaslloxane	540-97-6	208-762-8	PBT (Article 57d) vPvB (Article 57e)
Ethylenediamine	107-15-3	203-468-6	Respiratory sensitizing properties (Article 57m - human health)
Lead	7439-92-1	231-100-4	Toxic for reproduction (Article 57c)
Octamethylcyclotetras lloxane	556-67-2	209-136-7	PBT (Article 57d), vPvB (Article 57e)
Terohenvl hvdroenated	61788-32-7	262-967-7	vPvS (Article 57e)
Update: REACH Candidate List on 15 January 2019			
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	Endocrine disrupting properties (Article 57(f) - environment)
2,2-bis(4' hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	Toxic for reproduction (Article 57c); Carcinogenic (Article 57a)
Benzo[k]fluoranthene	207-08-9	205-916-6	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
Fluoranthene	206-44-0; 93951-69-0	205-912-4	PBT (Article 57d); vPvB (Article 57e)
Phenanthrene	85-01-8	201-581-5	vPvB (Article 57e)
Pyrene	129-00-0; 1718-52-1	204-927-3	PBT (Article 57d); vPvB (Article 57e)
Update: REACH Candidate List on 16 July 2019			
2,3,3,3-tetrafluoro-2-(heptanuoxypropoxy) propanoic acid, its salts and its acylhalides covering any of their individual isomers and combinations thereof	-	-	Endocrine disrupting properties (Article 57(f) - environment)
2-methoxyethyl acetate	110-49-6	203-772-9	Toxic for reproduction

			(Article 57c)
4-tert-butylphenol	98-54-4	202-679-0	Endocrine disrupting properties (Article 57(f) - environment)
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with 0.1% w/w of 4-nonylphenol branched and linear (4-NP)	-	-	Endocrine disrupting properties (Article 57(f) - environment)
Update: REACH Candidate List on 16 January 2020			
Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
Dihexyl sebacate	71850-09-4	276-090-2	Toxic for reproduction (Article 57c)
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57c)
2-benzyl-2-dimethylamino-4'-	119313-12-1	404-360-3	Toxic for reproduction (Article 57c)
Update: REACH Candidate List on 26 June 2020			
1-vinylimidazole 1072-63-5 214-012-0 Toxic for reproduction (Article 57c)	1-vinylimidazole 1072-63-5 214-012-0 Toxic for reproduction (Article 57c)	1-vinylimidazole 1072-63-5 214-012-0 Toxic for reproduction (Article 57c)	1-vinylimidazole 1072-63-5 214-012-0 Toxic for reproduction (Article 57c)
2-methylimidazole 693-98-1 211-765-7 Toxic for reproduction (Article 57c)	2-methylimidazole 693-98-1 211-765-7 Toxic for reproduction (Article 57c)	2-methylimidazole 693-98-1 211-765-7 Toxic for reproduction (Article 57c)	2-methylimidazole 693-98-1 211-765-7 Toxic for reproduction (Article 57c)
Dibutylbis(pentane-2,4-dionato-O,O')tin 22673-19-4 245-152-0 Toxic for reproduction (Article 57c)	Dibutylbis(pentane-2,4-dionato-O,O')tin 22673-19-4 245-152-0 Toxic for reproduction (Article 57c)	Dibutylbis(pentane-2,4-dionato-O,O')tin 22673-19-4 245-152-0 Toxic for reproduction (Article 57c)	Dibutylbis(pentane-2,4-dionato-O,O')tin 22673-19-4 245-152-0 Toxic for reproduction (Article 57c)
Butyl 4-hydroxybenzoate (Butylparaben) 94-26-8 202-318-7	Butyl 4-hydroxybenzoate (Butylparaben) 94-26-8 202-318-7	Butyl 4-hydroxybenzoate (Butylparaben) 94-26-8 202-318-7	Butyl 4-hydroxybenzoate (Butylparaben) 94-26-8 202-318-7
Update: REACH Candidate List on 19 January 2021			
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	Toxic for reproduction (Article 57c)
Diocetyl tin dilaurate, stannane, dioctyl-, bis(cocoacyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	Toxic for reproduction (Article 57c)
Update: REACH Candidate List on 8 July 2021			
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment)

			Endocrine disrupting properties (Article 57(f) - human health)
Phenol, dodecyl-, branched	121158-58-5	310-154-3	
Phenol, (tetrapropenyl) derivatives	74499-35-7	-	
Phenol, 4-dodecyl, branched	210555-94-5	-	
4-isododecylphenol	27459-10-5	-	
Phenol, tetrapropylene-	57427-55-1	-	
Phenol, 4-isododecyl-	27147-75-7	-	
Orthoboric acid, sodium salt	-	-	Toxic for reproduction (Article 57c)
Boric acid (H3BO3), sodium salt, hydrate	25747-83-5	-	
Boric acid (H3BO3), disodium salt	22454-04-2	-	
Trisodium orthoborate	14312-40-4	238-253-6	
Boric acid, sodium salt	1333-73-9	215-604-1	
Orthoboric acid, sodium salt	13840-56-7	237-560-2	
Boric acid (H3BO3), sodium salt (1:1)	14890-53-0	-	
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	-	-	PBT (Article 57d) vPvB (Article 57e)
Alkanes, C14-16, chloro	1372804-76-6	-	
Alkanes, C14-17, chloro	85535-85-9	287-477-0	
di-, tri- and tetrachlorotetradecane	-	950-299-5	
Tetradecane, chloro derivs.	198840-65-2	-	
Glutaral	111-30-8	203-856-5	Respiratory sensitising properties (Article 57(f) - human health)
4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	Toxic for reproduction (Article 57c)
(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-31-3	-	
2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	201-289-8	
(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-30-2	-	
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)	-	-	Carcinogenic (Article 57a)
2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5	253-057-0	
3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	155-92-5	-	
2,2-bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0	221-967-7	
2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9	202-480-9	
1,4-dioxane	123-91-1	204-661-8	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)

			Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
Update: REACH Candidate List on 17 January 2022			
tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57c)
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	401-850-9	PBT (Article 57d)
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	Toxic for reproduction (Article 57c)
(±)-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)	-	-	Endocrine disrupting properties (Article 57(f) - human health)
(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	1782069-81-1	-	
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	95342-41-9	-	
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	852541-25-4	-	
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptan-2-one	36861-47-9	253-242-6	
(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	741687-98-9	-	
(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	852541-30-1	-	
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene) bicyclo[2.2.1]heptan-2-one	852541-21-0	-	
Update: REACH Candidate List on 15 June 2022			
N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Update: REACH Candidate List on 17 January 2023			
1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	Very persistent and very bioaccumulative (REACH Article 57 e)
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	Carcinogenic (Article 57 a)
4,4'-sulphonyldiphenol	80-09-1	201-250-5	Toxic for reproduction (Article 57 c); Endocrine disrupting properties (Article 57 f – environment); Endocrine disrupting properties (Article 57 f – human health)
Barium diboron tetraoxide	13701-59-2	237-222-4-	Toxic for reproduction (Article 57 c)
Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	Very persistent and very bioaccumulative (Article 57 e)
Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	Endocrine disrupting properties (Article 57 f – human health)
Melamine	108-78-1	203-615-4	Equivalent level of concern having probable serious effects to human health (Article 57 f – human health); Equivalent level of concern having probable serious effects to the environment (Article 57 f – environment)

Perfluoroheptanoic acid and its salts	-	-	Toxic for reproduction (Article 57 c); Persistent, bioaccumulative and toxic (Article 57 d); Very persistent and very bioaccumulative (Article 57 e); Equivalent level of concern having probable serious effects to human health (Article 57 f – human health); Equivalent level of concern having probable serious effects to the environment (Article 57 f – environment)
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	-	473-390-7	Very persistent and very bioaccumulative (Article 57 e)
Update: REACH Candidate List on 23 January 2024			
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	Toxic for reproduction (Article 57c)
Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	vPvB (Article 57 e)
Update: REACH Candidate List on 23 January 2024			
2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	Toxic for reproduction (Article 57c); PBT (Article 57d)
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	221-573-5	vPvB (Article 57 e)
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	Toxic for reproduction (Article 57c)
Bumetrizole	3896-11-5	223-445-4	vPvB (Article 57 e)
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	700-960-7	vPvB (Article 57 e)

Currently no substances in PMD products are listed under the restriction provisions of REACH Annex XVII.

PMD Corp. has taken and continues to take commercially reasonable steps to provide representative and accurate information concerning the application of REACH on PMD Corp. IC products and development vehicles. PMD Corp. relies on information from third parties, including suppliers and may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. PMD Corp.'s standard warranty and limitation of liability provisions of TI's Standard Terms and Conditions apply to the representations herein unless otherwise provided by a written contract or other agreement signed by the parties.

Signature: 

Name/Title: Kara J. Dobbins, Director of Operations

Date: March 26, 2024