

# Polyethylene

## All Polyethylene Products

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Effective Date: June 15, 2015


### Statement Concerning REACH List of Substances of Very High Concern

Many of Total Petrochemicals & Refining USA, Inc.'s **Polyethylene** customers outside of Europe manufacture articles, which in most cases will not require registration or notification under REACH to be imported into Europe. Article 7 of REACH, defines circumstances under which article producers and importers are required to register or notify of substances in articles and details the requirements. Along with other requirements, Article 7 requires that any producer or importer of articles to notify the European Chemical Agency when an article contains Substances of Very High Concern (SVHC) in a concentration above 0.1 % (w/w).

Based on product formulation and manufacturing process knowledge, **polyethylene** products supplied by Total Petrochemicals & Refining USA, Inc. do not contain at levels greater than 0.1 % (w/w) any substances listed in the table below<sup>1</sup>.

Substance Name	EC Number	CAS Number	Date of inclusion
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)	271-094-0 272-013-1	68515-51-5 68648-93-1	06/15/2015
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 isomers of [1] and [2] or any combination thereof]	-	-	06/15/2015
Cadmium fluoride	232-222-0	7790-79-6	12/17/2014
Cadmium sulphate (Cadmium sulfate)	233-331-6	10124-36-4; 31119-53-6	12/17/2014
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	12/17/2014
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	12/17/2014
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	12/17/2014
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)	-	-	12/17/2014

<sup>1</sup> Table based on ECHA SVHC list released on December 17, 2014 (<http://echa.europa.eu/web/guest/candidate-list-table>).

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Substance Name	EC Number	CAS Number	Date of inclusion
Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	12/17/2014
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	06/16/2014
Sodium perborate; perboric acid, sodium salt	239-172-9 234-390-0	-	06/16/2014
Sodium peroxometaborate	231-556-4	7632-04-4	06/16/2014
Cadmium chloride	233-296-7	10108-64-2	06/16/2014
Cadmium sulphide; Cadmium sulfide	215-147-8	1306-23-6	12/16/2013
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)	209-358-4	573-58-0	12/16/2013
Dihexyl phthalate	201-559-5	84-75-3	12/16/2013
Imidazolidine-2-thione; 2-imidazoline-2-thiol	202-506-9	96-45-7	12/16/2013
Trixylyl phosphate	246-677-8	25155-23-1	12/16/2013
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)			
Lead di(acetate)	206-104-4	301-04-2	12/16/2013
Cadmium	231-152-8	7440-43-9	06/20/2013
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	06/20/2013
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	06/20/2013
Dipentyl phthalate (DPP)	205-017-9	131-18-0	06/20/2013
4-Nonylphenol, branched and linear, ethoxylated <sup>2</sup>	-		06/20/2013
Cadmium oxide	215-146-2	1306-19-0	06/20/2013
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	12/19/2012
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	12/19/2012
Henicosafuoroundecanoic acid	218-165-4	2058-94-8	12/19/2012
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]	247-094-1 243-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9	12/19/2012
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]	201-604-9 236-086-3 238-009-9	85-42-7 13149-00-3 14166-21-3	12/19/2012
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	12/19/2012
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	12/19/2012

<sup>2</sup> 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

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Substance Name	EC Number	CAS Number	Date of inclusion
Lead dinitrate	233-245-9	10099-74-8	12/19/2012
Silicic acid, lead salt	234-363-3	11120-22-2	12/19/2012
4-Aminoazobenzene	200-453-6	60-09-3	12/19/2012
Lead titanium zirconium oxide	235-727-4	12626-81-2	12/19/2012
Lead monoxide (lead oxide)	215-267-0	1317-36-8	12/19/2012
o-Toluidine	202-429-0	95-53-4	12/19/2012
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	12/19/2012
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped <sup>3</sup>	272-271-5	68784-75-8	12/19/2012
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	12/19/2012
Furan	203-727-3	110-00-9	12/19/2012
N,N-dimethylformamide	200-679-5	68-12-2	12/19/2012
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <sup>4</sup>	-	-	12/19/2012
4-Nonylphenol, branched and linear <sup>5</sup>	-	-	12/19/2012
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	12/19/2012
Diethyl sulphate	200-589-6	64-67-5	12/19/2012
Dimethyl sulphate	201-058-1	77-78-1	12/19/2012
Lead oxide sulfate	234-853-7	12036-76-9	12/19/2012
Lead titanium trioxide	235-038-9	12060-00-3	12/19/2012
Acetic acid, lead salt, basic	257-175-3	51404-69-4	12/19/2012
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	12/19/2012
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	12/19/2012
N-methylacetamide	201-182-6	79-16-3	12/19/2012
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	12/19/2012
1,2-Diethoxyethane	211-076-1	629-14-1	12/19/2012
Tetralead trioxide sulphate	235-380-9	12202-17-4	12/19/2012
N-pentyl-isopentylphthalate	-	776297-69-9	12/19/2012
Dioxobis(stearato)trilead	235-702-8	12578-12-0	12/19/2012
Tetraethyllead	201-075-4	78-00-2	12/19/2012
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	12/19/2012
Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	12/19/2012
Tricosafuorododecanoic acid	206-203-2	307-55-1	12/19/2012
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	12/19/2012
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	12/19/2012

<sup>3</sup> 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

<sup>4</sup> covering well-defined substances and UVCB substances, polymers and homologues

<sup>5</sup> 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


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# Polyethylene

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Substance Name	EC Number	CAS Number	Date of inclusion
Methoxyacetic acid	210-894-6	625-45-6	12/19/2012
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	12/19/2012
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	12/19/2012
Trilead dioxide phosphonate	235-252-2	12141-20-7	12/19/2012
o-aminoazotoluene	202-591-2	97-56-3	12/19/2012
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	12/19/2012
4,4'-oxydianiline and its salts	202-977-0	101-80-4	12/19/2012
Orange lead (lead tetroxide)	215-235-6	1314-41-6	12/19/2012
Biphenyl-4-ylamine	202-177-1	92-67-1	12/19/2012
Diisopentylphthalate	210-088-4	605-50-5	12/19/2012
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	12/19/2012
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	12/19/2012
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	12/19/2012
Lead cyanamidate	244-073-9	20837-86-9	12/19/2012
[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)]	208-953-6	548-62-9	6/18/2012
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	6/18/2012
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	6/18/2012
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)]	209-218-2	561-41-1	6/18/2012
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	6/18/2012
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	6/18/2012
Diboron trioxide	215-125-8	1303-86-2	6/18/2012
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)]	229-851-8	6786-83-0	6/18/2012
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	6/18/2012
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	6/18/2012
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	6/18/2012
[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)]	219-943-6	2580-56-5	6/18/2012
Formamide	200-842-0	75-12-7	6/18/2012
Zirconia Aluminosilicate Refractory Ceramic Fibres <sup>6</sup>			12/19/2011

<sup>6</sup> 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<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight.


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# Polyethylene

## All Polyethylene Products

Substance Name	EC Number	CAS Number	Date of inclusion
Calcium arsenate	231-904-5	7778-44-1	12/19/2011
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	12/19/2011
Aluminosilicate Refractory Ceramic Fibres <sup>7</sup>			12/19/2011
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	12/19/2011
Lead dipicrate	229-335-2	6477-64-1	12/19/2011
N,N-dimethylacetamide	204-826-4	127-19-5	12/19/2011
Arsenic acid	231-901-9	7778-39-4	12/19/2011
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	12/19/2011
Trilead diarsenate	222-979-5	3687-31-8	12/19/2011
1,2-dichloroethane	203-458-1	107-06-2	12/19/2011
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	12/19/2011
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	12/19/2011
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	12/19/2011
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	12/19/2011
Lead diazide, Lead azide	236-542-1	13424-46-9	12/19/2011
Lead styphnate	239-290-0	15245-44-0	12/19/2011
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	12/19/2011
Phenolphthalein	201-004-7	77-09-8	12/19/2011
Dichromium tris(chromate)	246-356-2	24613-89-6	12/19/2011
Cobalt dichloride	231-589-4	7646-79-9	6/20/2011 - 10/28/2008
1,2,3-Trichloropropane	202-486-1	96-18-4	6/20/2011
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	6/20/2011
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	6/20/2011
Hydrazine	206-114-9	302-01-2	
Strontium chromate	232-142-6	7789-06-2	6/20/2011
2-Ethoxyethyl acetate	203-839-2	111-15-9	6/20/2011
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	6/20/2011
Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2	12/15/2010
Cobalt(II) carbonate	208-169-4	513-79-1	12/15/2010
Cobalt(II) diacetate	200-755-8	71-48-7	12/15/2010
2-Methoxyethanol	203-713-7	109-86-4	12/15/2010

<sup>7</sup> 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<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight.

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Substance Name	EC Number	CAS Number	Date of inclusion
Chromium trioxide	215-607-8	1333-82-0	12/15/2010
Cobalt(II) dinitrate	233-402-1	10141-05-6	12/15/2010
Cobalt(II) sulphate	233-334-2	10124-43-3	12/15/2010
2-Ethoxyethanol	203-804-1	110-80-5	12/15/2010
		1303-96-4	
Disodium tetraborate, anhydrous	215-540-4	1330-43-4	6/18/2010
		12179-04-3	
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	6/18/2010
Potassium dichromate	231-906-6	7778-50-9	6/18/2010
Ammonium dichromate	232-143-1	7789-09-5	6/18/2010
Trichloroethylene	201-167-4	79-01-6	6/18/2010
Sodium chromate	231-889-5	7775-11-3	6/18/2010
Potassium chromate	232-140-5	7789-00-6	6/18/2010
		10043-35-3	
Boric acid	233-139-2	11113-50-1	6/18/2010
Acrylamide	201-173-7	79-06-1	3/30/2010
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	1/13/2010
Lead chromate	231-846-0	7758-97-6	1/13/2010
Anthracene oil, anthracene-low	292-604-8	90640-82-7	1/13/2010
2,4-Dinitrotoluene	204-450-0	121-14-2	1/13/2010
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	1/13/2010
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	1/13/2010
Anthracene oil	292-602-7	90640-80-5	1/13/2010
Aluminosilicate Refractory Ceramic Fibres	Extracted from Index no.: 650-017-00-8		1/13/2010
Zirconia Aluminosilicate Refractory Ceramic Fibres	Extracted from Index no. 650-017-00-8		1/13/2010
Pitch, coal tar, high temp.	266-028-2	65996-93-2	1/13/2010
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	1/13/2010
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	1/13/2010
Diisobutyl phthalate	201-553-2	84-69-5	1/13/2010
Anthracene oil, anthracene paste	292-603-2	90640-81-6	1/13/2010
		7789-12-0	
Sodium dichromate	234-190-3	10588-01-9	10/28/2008
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	10/28/2008
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	10/28/2008
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	10/28/2008
Triethyl arsenate	427-700-2	15606-95-8	10/28/2008
Dibutyl phthalate (DBP)	201-557-4	84-74-2	10/28/2008
Diarsenic trioxide	215-481-4	1327-53-3	10/28/2008



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# Polyethylene

## All Polyethylene Products

Substance Name	EC Number	CAS Number	Date of inclusion
Anthracene	204-371-1	120-12-7	10/28/2008
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	10/28/2008
Lead hydrogen arsenate	232-064-2	7784-40-9	10/28/2008
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	10/28/2008
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	247-148-4	25637-99-4 3194-55-6	
Alpha-hexabromocyclododecane		(134237-50-6)	10/28/2008
Beta-hexabromocyclododecane	and	(134237-51-7)	
Gamma-hexabromocyclododecane	221-695-9	(134237-52-8)	
Diarsenic pentaoxide	215-116-9	1303-28-2	10/28/2008
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	10/28/2008


While we do not test each raw material we purchase, nor do we test our polyethylene products for trace amounts of these substances, we do exercise good product stewardship practices and seek information concerning raw material composition from our suppliers. Based on information from our suppliers and knowledge of our process, we believe that our products do not contain these substances in amounts greater than 0.1 %.

This statement does not cover

- any modification of our product by any addition of any other product to it,
- any modification of our product resulting from processing of the product, or
- an inadequate use and/or storage of our product or the finished articles by the end user.



Paul Bradley, Ph.D.  
Manager Product Stewardship  
Total Petrochemicals & Refining USA, Inc.

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