



Effective Date: December 20, 2011

Statement Concerning REACH List of Substances of Very High Concern

Many of TOTAL PETROCHEMICALS 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, TOTAL PETROCHEMICALS USA, INC.'s **Polyethylene** products do not contain at levels greater than 0.1 % (w/w) any substances listed in the table below¹.

Substance Name	EC Number	CAS Number	Date of inclusion
Zirconia Aluminosilicate Refractory Ceramic Fibres ²			12/19/2011
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 ³			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

¹ Table based on ECHA SVHC list released on Dec. 19, 2011 (<http://echa.europa.eu/web/guest>).

² 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 (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.

³ 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 (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.

	TOTAL PETROCHEMICALS USA, INC. www.totalpetrochemicalsusa.com 1201 Louisiana Street, Ste 1800 Houston, TX 77002 Phone 713-483-5000	CUSTOMER SERVICE P.O. Box 674411 Houston, Texas 77267-4411 1-800-344-3462	Product Stewardship Phone: 713-483-5633 FAX 713-483-5050 E-mail: product.stewardship@total.com
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Substance Name	EC Number	CAS Number	Date of inclusion
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.	231-801-5	7738-94-5	12/15/2010
Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	236-881-5	13530-68-2	
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
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
Disodium tetraborate, anhydrous	215-540-4	1303-96-4 1330-43-4 12179-04-3	6/18/2010
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	6/18/2010
Potassium dichromate	231-906-6	7778-50-9	6/18/2010

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Substance Name	EC Number	CAS Number	Date of inclusion
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
Boric acid	233-139-2	10043-35-3 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
Sodium dichromate	234-190-3	7789-12-0 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
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

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Substance Name	EC Number	CAS Number	Date of inclusion
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	10/28/2008
Alpha-hexabromocyclododecane	221-695-9	3194-55-6 (134237-50-6)	
Beta-hexabromocyclododecane		(134237-51-7)	
Gamma-hexabromocyclododecane		(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 USA, INC.

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