

**HEAD OFFICE:**

Plot No. . 12, Sector B1, Local Shopping Complex, Vasant Kunj,  
New Delhi - 110 070 (INDIA).  
Tel: 0091-11-26139256 . 265; Fax: 0091-11-26125739  
Web site: www.jindalpoly.com

Dec18, 2015

**TO WHOM IT MAY CONCERN****Substances Of Very High Concern****Product: JPFL biaxially oriented polyester films (inclusive of METPET)**

We confirm that the listed substances is/are not intentionally used by Jindal Poly Films in BOPET films. Although films are not routinely tested for its/their presence, based on composition knowledge, this/these substance(s) is/are not expected to be present. However, the fact that this/these substance(s) is/are not intentionally used by Jindal Poly Films in films does not exclude that trace levels of the substance(s) may be present as a result of the specific characteristics of the raw materials and(or) of the manufacturing process.

Consequently we can confirm that if the substances of very high concern (SVHCs) are present at all in BOPET FILM, then they always be in a quantity that is below to 0,1%..

Sr.No	Chemical name	<u>CAS Number</u>	<u>EC number</u>	Concentration (w/w %)
1.	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	-
2.	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	-
3.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	-
4.	Anthracene	120-12-7	204-371-1	-
5.	Benzyl butyl phthalate	85-68-7	201-622-7	-
6.	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	-
7.	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	-
8.	Cobalt dichloride	7646-79-9	231-589-4	-
9.	Diarsenic pentaoxide	1303-28-2	215-116-9	-
10.	Diarsenic trioxide	1327-53-3	215-481-4	-
11.	Dibutyl phthalate	84-74-2	201-557-4	-
12.	Hexabromocyclododecane (HBCDD) All major diastereoisomers identified : Alpha -Hexabromocyclododecane	25637-99-4 3194-55-6 134237-51-7	247-148-6 221-695-9	-

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	Beta . Hexabromocyclododecane Gamma - Hexabromocyclododecane	134237-50-6 134237-52-8		
13.	Lead hydrogen arsenate	7784-40-9	232-064-2	-
14.	Sodium dichromate, dihydrate	7789-12-0	234-190-3	-
15.	Triethyl arsenate	15606-95-8	427-700-2	-
16.	2,4-dinitrotoluene	121-14-2	204-450-0	-
17.	Anthracene oil	90604-80-5	292-602-7	-
18.	Anthracene oil, anthracene paste,	90640-81-6	292-603-2	-
19.	Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	295-275-9	-
20.	Anthracene oil, anthracene paste distn. lights	91995-17-14	295-278-5	-
21.	Anthracene oil, anthracene -low	90640-82-7	292-604-8	-
22.	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	-
23.	Lead chromate	7758-97-6	231-846-0	-
24.	Lead chromate molybdate sulphate red	12656-85-8	235-759-9	-
25.	Lead sulfochromate yellow	1344-37-2	215-693-7	-
26.	Coal tar pitch high temp.	65996-93-2	266-028-2	-
27.	tris(2-chloroethyl)phosphate	115-96-8	204-118-5	-
28.	Trichloroethylene	79-01-6	201-167-4	-
29.	Boric Acid	10043-35-3 11113-50-1	233-139-2 234-343-4	-
30.	Disodium tetra borate , anhydrous	1303-96-4 1330-43-4 12179-04-3	215-540-4	-
31.	Tetra boron disodium heptaoxide, hydrate	12267-73-1	235-541-3	-
32.	Sodium Chromate	7775-11-3	231-889-5	-
33.	Potassium chromate	7789-00-6	232-140-5	-
34.	Ammonium Dichromate	7789-09-5	232-143-1	-
35.	Potassium Dichromate	7778-50-9	231-906-6	-
36.	Cobalt(II) sulphate	10124-43-3	233-334-2	-

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37.	Cobalt(II) dinitrate	10141-05-6	233-402-1	-
38.	Cobalt (II) carbonate	513-79-1	208-169-4	-
39.	Cobalt(II) diacetate	71-48-7	200-755-8	-
40.	2-Methoxyethanol	109-86-4	203-713-7	-
41.	2-Ethoxyethanol	110-80-5	203-804-1	-
42.	2-Ethoxyethyl acetate	111-15-9	203-839-2	-
43.	Chromium trioxide	1333-82-0	215-607-8	-
44.	Chromic acid	7738-94-5	231-801-5	-
45.	Dichromic acid	13530-68-2	236-881-5	-
46.	Oligomers of chromic acid and dichromic acid	not yet assigned	not yet assigned	-
47.	Strontium chromate	02-06-89 2151068	232-142-6	-
48.	Hydrazine	302-01-2 / 7803-57-8	206-114-9	-
49.	Acrylamide	79-06-1 29007	201-173-7	-
50.	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	-
51.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	-
52.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	-
53.	1,2,3-Trichloropropane	96-18-4	202-486-1	-
54.	4-tert-octylphenol	140-66-9	205-426-2	-
55.	4-methoxyaniline : o-Anisidine	90-04-0	201-963-1	-
56.	Arsenic acid	7778-39-4	231-901-9	-

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57.	Calcium Arsenate	7778-44-1	231-904-5	-
58.	Trilead diarsenate	3687-31-8	222-979-5	-
59.	1,2-dichloroethane	107-06-2	203-458-1	-
60.	Bis(2-methoxyethyl)ether	111-96-6	203-924-4	-
61.	Bis(2-methoxyethyl)phthalate	117-82-8	204-212-6	-
62.	N,N-dimethylacetamide(DMAC)	127-19-5	204-826-4	-
63.	Formaldehyde,oligomeric reaction products with aniline(technical MDA)	25214-70-4	500-036-1	-
64.	Lead diazide	13424-46-9	236-542-1	-
65.	Lead styphnate	15245-44-0	239-290-0	-
66.	2,2 dichloro-4,4-methylenedianiline	101-14-4	202-918-9	-
67.	Dichromium tris(chromate)	24613-89-6	246-356-2	-
68.	Potassium hydroxyl octaoxo dizincate dichromate	11103-86-9	234-329-8	-
69.	Pentazinc chromate octahydroxide	49663-84-5	256-416-0	-
70.	Phenolphthalein	77-09-8	201-004-7	-
71.	Lead dipicrate	6477-64-1	229-335-2	-
72.	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	-
73.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	-
74.	Diboron trioxide	1303-86-2	215-125-8	-
75.	Formamide	75-12-7	200-842-0	-
76.	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	-
77.	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3	-
78.	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	423-400-0	-

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79.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	—
80.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	—
81.	[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)]	2580-56-5	219-943-6	—
82.	[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)]	548-62-9	208-953-6	—
83.	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)]	561-41-1	209-218-2	—
84.	a,a-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)]	6786-83-0	229-851-8	—
85.	Pyrochlore , antimony lead yellow	8012-00-8	232-382-1	—
86.	6-methoxy-m-toludine (p-cresidine)	120-71-8	204-419-1	—
87.	Henicosafuoroundecanoic acid	2058-92-8	218-165-4	—
88.	Hexahydromethylphthalic anhydride [1], hexhydro-4-methylphthalic anhydride [2], hexahydro-1-methylphthalic anhydride [3] , hexahydro-3-methylphthalic anhydride [4] (the individual isomers [2],[3],[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, 48-122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	—

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89.	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.	85-42-7, 13149-00-3, 141166-21-3	201-604-9, 236-086-3, 238-009-9	-
90.	Dibutyltin dichloride	683-18-1	211-670-0	-
91.	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	-
92.	Lead dinitrate	10099-74-8	233-245-9	-
93.	Silicic acid , lead salt	11120-27-2	234-363-3	-
94.	4-aminoazobenzene	60-09-3	200-453-6	-
95.	Lead titanium zirconium oxide	12626-81-2	235-727-4	-
96.	Lead monoxide(lead oxide)	1317-36-8	215-267-0	-
97.	o-toluidine	95-53-4	202-429-0	-
98.	3-ethyl-2-methyl-(3-methylbutyl)-1,3-oxazoldine	143860-04-2	421-150-7	-
99.	Silicic acid(H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ) , barium salt(1:1),lead doped	68784-75-8	272-271-5	-
100.	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	-
101.	Furon	110-00-9	203-727-3	-
102.	N,N-dimethylformamide	68-12-2	200-679-5	-
103.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [ covering well-defined substances and UVCB substances, polymers and homologues]	-	-	-
104.	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	-	-	-

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	individual isomers or a combination thereof			
105.	4,4-methylenedi-o-toludine	838-88-0	212-658-8	-
106.	Diethyl sulphate	64-67-5	200-589-6	-
107.	Dimethyl sulphate	77-78-1	201-058-1	-
108.	Lead oxide sulphate	12036-76-9	234-853-7	-
109.	Lead titanium trioxide	12060-00-3	235-038-9	-
110.	Acetic acid , lead salt , basic	51404-69-4	257-175-3	-
111.	Phthalate(2-)dioxotrilead	69011-06-9	273-688-5	-
112.	Bis(pentabromophenyl)ether(decabromodiphenyl ether;Decabde)	1163-19-5	214-604-9	-
113.	N-methylacetamide	79-16-3	201-182-6	-
114.	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	-
115.	1,2-diethoxyethane	629-14-1	211-076-1	-
116.	Tetra lead trioxide sulphate	12202-17-4	235-380-9	-
117.	N-pentyl-isopentylphthalate	776297-69-9	-	-
118.	Dioxobis(stearato)trilead	12578-12-0	235-702-8	-
119.	Tetraethyl lead	78-00-2	201-075-4	-
120.	Pentalead tetra oxide sulphate	12065-90-6	235-067-7	-
121.	Pentacosaflluorotridecnoic acid	72629-94-8	276-745-2	-
122.	Tricosaflluorotridecnoic acid	307-55-1	206-203-2	-
123.	Heptacosaflluorotridecnoic acid	376-06-7	206-803-4	-
124.	1-bromopropane(n-propyl bromide)	106-94-5	203-445-0	-

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125.	Methoxyacetic acid	625-45-6	210-894-6	-
126.	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	-
127.	Methyloxirane (propylene oxide)	75-56-9	200-879-2	-
128.	Trilead dioxide phosphonate	12141-20-7	235-252-2	-
129.	o-aminoazotoluene	97-56-3	202-591-2	-
130.	1,2-Benzenedicarboxylic acid , diphenylester, branched and linear	84777-06-0	284-032-2	-
131.	4,4-oxydianiline and its salt	101-80-4	202-977-0	-
132.	Orange lead (lead tetroxide)	1314-41-6	215-235-6	-
133.	Biphenyl-4-ylamine	92-67-1	202-177-1	-
134.	Disopentylphthalate	605-50-5	210-088-4	-
135.	Fatty acids ,216-18 , lead salt	91031-62-8	292-966-7	-
136.	Diazene-1,2-dicarboxamide (CC-azodi (formamide)	123-77-3	204-650-8	-
137.	Sulfurous acid , lead salt , dibasic	62229-08-7	263-467-1	-
138.	Lead cyanamidate	20837-86-9	244-073-9	-
139.	Cadmium	7440-43-9	231-152-8	-
140.	Ammonium pentadecafluorooctanoate(APFO)	3825-26-1	223-320-4	-
141.	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	-
142.	Dipentyl phthalate(DPP)	131-18-0	205-017-9	-
143.	4-Nonylphenol , branched and linear, ethoxylated (substance 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 combination			-

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	thereof)			
144.	Cadmium Oxide	1306-19-0	215-146-2	-
145.	Cadmium sulphide	1306-23-6	215-147-8	-
146.	Disodium 4-amino-3[(4- $\phi$ [(2,4-diaminophenyl)azo]][1,1 $\phi$ -biphenyl]-4-y!]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	-
147.	Dihexyl phthalate	84-75-3	201-559-5	-
148.	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9	-
149.	Trixylyl phosphate	246-677-8	25155-23-1	-
150.	Disodium 3,3 $\phi$ [(1,1 $\phi$ -biphenyl)-4,4 $\phi$ -diylbis(azo)]bis (4-aminonaphthalene-1-sulphonate) (C.I.Direct Red)	209-358-4	573-58-0	-
151.	Lead di(acetate)	301-04-2	206-104-4	-
152.	Sodium perborate; perboric acid, sodium salt		239-172-9; 234-390-0	-
153.	2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	-
154.	Sodium peroxometaborate	7632-04-4	231-556-4	-
155.	Cadmium chloride	10108-64-2	233-296-7	-
156.	2-benzotriazole-2-yl-4,6-di-tert-butylphenol(UV-320)	3846-71-7	223-346-6	-
157.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-3,5-dithia-4-stannatetradecanoate(DOTE)	15571-58-1	239-622-4	-
158.	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetraadecanoate and 2-ethylhexyl 10-ethyl-4-{{2-{{(2-ethylhexyl)oxy}-2oxoethyl}thio}-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(rection mass of DOTE and MOTE)	-	-	-

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159.	2-(2H-benzotriazole-2-yl)-4,6-ditertpentylphenol(UV-328)	25973-55-1	247-384-8	-
160.	Cadmium fluoride	7790-79-6	232-222-0	-
161.	Cadmium sulphate	10124-36-4 / 31119-53-6	233-331-6	-
162.	1,2-benzenedicarboxylic acid , di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 01-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	-
163.	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] [converting any of the individual stereoisomers of [1] and [2] or any combination there of	-	-	-
164.	1,3-propanesultone	1120-71-4	214-317-9	-
165.	2,4-di-ter-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	-
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl)phenol(UV-350)	36437-37-3	253-037-1	-
167.	Nitrobenzene	98-95-3	202-716-0	-
168.	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 / 21049-39-8 /4149-60-4	206-601-3	-

Updated on 17/12/2015

**For Jindal Poly films Limited,**

**General Manager – Quality assurance**

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