



Date: 28/06/2022

DECLARATION OF COMPLIANCE WITH REACH

Declarant: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Manufacturer: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

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Product Name: BOPP Gloss Thermal Film, BOPP Clear Thermal Film

Specifications: 16µm,17µm, 18µm, 20µm, 22µm, 24µm, 25µm, 28µm, 30µm

The materials intended for the manufacturing of these products are:

- BOPP Gloss film (Bi-axially Oriented Polypropylene Gloss film)
- EVA(Ethylene Vinyl Acetate)

We declare that the above product, when leaving the factory, has a composition that meet the REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and its amendments 1354/2007, 987/2008, 1272/2008, 134/2009, 552/2009, 276/2010, 453/2010, 143/2011, 207/2011, 252/2011, 253/2011, 366/2011, 494/2011, 109/2012, 125/2012, 412/2012, 835/2012, 836/2012, 847/2012, 848/2012, 126/2013, 348/2013, 517/2013, 1272/2013, 301/2014, 317/2014, 474/2014, 895/2014, 2015/282, 2015/326, 2015/628, 2015/830, 2015/1494, 2016/26, 2016/217, 2016/863, 2016/1005, 2016/1017, 2016/1688, 2016/2235, 2017/227, 2017/706, 2017/999, 2017/1000, 2017/1510, 2018/35, 2018/588, 2018/589, 2018/675, 2018/1513, 2018/1881, 2018/2005, 2019/957, 2019/1148, 2019/1691,2020/171, 2020/507, 2020/878, 2020/1149, 2020/2081,2020/2096,2020/2160,2021/57,2021/979,2021/1199, 2021/1297,2021/2030,2021/2045,2021/2204,2022/586;

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Appendix
Candidate List of substances of very high concern for Authorisation

No.	name expand / collapse	EC no.	CAS no.	Date of inclusion	Decision
1	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	10/06/2022	D(2022)4187-DC
2	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17/01/2022	D(2021)10043-DC
3	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	401-850-9	255881-94-8	17/01/2022	D(2021)10043-DC
4	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17/01/2022	D(2021)10043-DC
5	(±)-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) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 1782069-81-1) (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 95342-41-9) (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 852541-25-4) (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (EC No.: 253-242-6 CAS No.: 36861-47-9) (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 741687-98-9)	---	---	17/01/2022	D(2021)10043-DC

	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 852541-30-1) (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 852541-21-0)				
6	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	---	---	08/07/2021	D(2021)4569-DC
7	orthoboric acid, sodium salt	---	---	08/07/2021	D(2021)4569-DC
8	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	---	---	08/07/2021	D(2021)4569-DC
9	glutaral	203-856-5	111-30-8	08/07/2021	D(2021)4569-DC
10	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	08/07/2021	D(2021)4569-DC
11	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	---	---	08/07/2021	D(2021)4569-DC
12	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)	---	---	08/07/2021	D(2021)4569-DC
13	1,4-dioxane	204-661-8	123-91-1	08/07/2021	D(2021)4569-DC

14	Diocetyl tin 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	---	---	19/01/2021	D(2020)9139-DC
15	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19/01/2021	D(2020)9139-DC
16	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	25/06/2020	D(2020)4578-DC
17	butyl 4-hydroxybenzoate	202-318-7	94-26-8	25/06/2020	D(2020)4578-DC
18	2-methylimidazole	211-765-7	693-98-1	25/06/2020	D(2020)4578-DC
19	1-vinylimidazole	214-012-0	1072-63-5	25/06/2020	D(2020)4578-DC
20	Perfluorobutane sulfonic acid (PFBS) and its salts	—	—	16/01/0020	ECHA-01-2020
21	Diisohexyl phthalate	276-090-2	71850-09-4	16/01/0020	ECHA-01-2020
22	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	16/01/0020	ECHA-01-2020
23	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	16/01/0020	ECHA-01-2020
24	<p>Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)</p> <p>tris(4-nonylphenyl, branched) phosphite EC No.: 701-028-2 CAS No.: -</p> <p>Tris(nonylphenyl) phosphite EC No.: 247-759-6 CAS No.: 26523-78-4</p> <p>Phenol, 4-nonyl-, phosphite (3:1) EC No.: 608-492-4 CAS No.: 3050-88-2</p>	—	—	16/07/2019	ED/71/2019

25	4-tert-butylphenol	202-679-0	98-54-4	16/07/2019	ED/71/2019 EU/2019/1194
26	2-methoxyethyl acetate	203-772-9	110-49-6	16/07/2019	ED/71/2019
27	<p>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof</p> <p>Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate EC No.:266-578-3 CAS No.: 67118-55-2</p> <p>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid EC No.:236-236-8 CAS No.: 13252-13-6</p> <p>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride EC No.: 218-173-8 CAS No.: 2062-98-8</p> <p>Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate EC No.: 700-242-3 CAS No.: 62037-80-3</p>	-	-	16/07/2019	ED/71/2019
28	<p>1,7,7-trimethyl-3-(phenylmethylene)bicyclo [2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC</p>	239-139-9	15087-24-8	15/01/2019	ED/88/2018 EU/2018/2013
29	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	15/01/2019	ED/88/2018
30	Benzo[k]fluoranthene	205-916-6	207-08-9	15/01/2019	ED/88/2018
31	Fluoranthene	205-912-4	206-44-0; 93951-69-0	15/01/2019	ED/88/2018
32	Phenanthrene	201-581-5	85-01-8	15/01/2019	ED/88/2018
33	Pyrene	204-927-3	129-00-0; 1718-52-1	15/01/2019	ED/88/2018
34	<p>Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA</p>	209-008-0	552-30-7	27/06/2018	ED/61/2018 EU/2018/594

35	Benzo[ghi]perylene	205-883-8	191-24-2	27/06/2018	ED 61/2018
36	Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	27/06/2018	ED 61/2018
37	Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	27/06/2018	EU/2018/636 ED/61/2018
38	Disodium octaborate	234-541-0	12008-41-2	27/06/2018	ED 61/2018
39	Dodecamethylcyclohexasiloxane D6	208-762-8	540-97-6	27/06/2018	ED 61/2018
40	Ethylenediamine EDA	203-468-6	107-15-3	27/06/2018	ED 61/2018
41	Lead	231-100-4	7439-92-1	27/06/2018	ED 61/2018
42	Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	27/06/2018	ED 61/2018
43	Terphenyl, hydrogenated	262-967-7	61788-32-7	27/06/2018	ED 61/2018
44	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"TM) covering any of its individual anti- and syn-isomers or any combination thereof	-	-	15/01/2018	ED 01/2018
45	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	15/01/2018	ED 01/2018
46	Cadmium carbonate	208-168-9	513-78-0	15/01/2018	ED 01/2018
47	Cadmium hydroxide	244-168-5	21041-95-2	15/01/2018	ED 01/2018
48	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	15/01/2018	ED 01/2018
49	Chrysene	205-923-4	218-01-9, 1719-03-5	15/01/2018	ED 01/2018
50	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)	-	-	15/01/2018	ED 01/2018
51	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	-	07/07/2017	ED/30/2017
52	4,4'-isopropylidenediphenol Bisphenol A; BPA	201-245-8	80-05-7	12/01/2017	ED/30/2017 ED/01/2017

					ED 01/2018
53	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	-	-	12/01/2017	ED/01/2017
54	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Decanoic acid, nonadecafluoro-, sodium salt EC no.: - CAS no.: 3830-45-3 Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7	-	-	12/01/2017	ED/01/2017
55	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017	ED/01/2017
56	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	20/06/2016	ED/21/2016
57	1,3-propanesultone	214-317-9	1120-71-4	17/12/2015	ED/79/2015
58	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17/12/2015	ED/79/2015
59	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17/12/2015	ED/79/2015
60	Nitrobenzene	202-716-0	98-95-3	17/12/2015	ED/79/2015
61	Perfluorononan-1-oic-acid and its sodium and ammonium salts Ammonium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 4149-60-4 Perfluorononan-1-oic-acid EC no.: 206-801-3 CAS no.: 375-95-1 Sodium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 21049-39-8	-	-	17/12/2015	ED/79/2015

62	<p>1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5) 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters EC no.: 272-013-1 CAS no.: 68648-93-1</p> <hr/> <p>1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters EC no.: 271-094-0 CAS no.: 68515-51-5</p>	-	-	15/06/2015	ED_39_2015.pdf
63	<p>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 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: - CAS no.: -</p> <hr/> <p>5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: - CAS no.: -</p>	-	-	15/06/2015	ED/39/2015
64	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17/12/2014	ED/108/2014
65	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17/12/2014	ED/108/2014
66	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17/12/2014	ED/108/2014
67	Cadmium fluoride	232-222-0	7790-79-6	17/12/2014	ED/108/2014
68	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17/12/2014	ED/108/2014
69	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)	-	-	17/12/2014	ED/108/2014

70	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	16/06/2014	ED/49/2014
71	Cadmium chloride	233-296-7	10108-64-2	16/06/2014	ED/49/2014
72	Sodium perborate, perboric acid, sodium salt Sodium perborate EC no.: 239-172-9 CAS no.: 15120-21-5 Perboric acid, sodium salt EC no.: 234-390-0 CAS no.: 11138-47-9	-	-	16/06/2014	ED/49/2014
73	Sodium peroxometaborate	231-556-4	7632-04-4	16/06/2014	ED/49/2014
74	Cadmium sulphide	215-147-8	1306-23-6	16/12/2013	ED/121/2013
75	Dihexyl phthalate	201-559-5	84-75-3	16/12/2013	ED/121/2013
76	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	16/12/2013	ED/121/2013
77	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)	217-710-3	1937-37-7	16/12/2013	ED/121/2013
78	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16/12/2013	ED/121/2013
79	Lead di(acetate)	206-104-4	301-04-2	16/12/2013	ED/121/2013
80	Trixylyl phosphate	246-677-8	25155-23-1	16/12/2013	ED/121/2013
81	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	-	-	20/06/2013	ED/69/2013
82	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20/06/2013	ED/69/2013
83	Cadmium	231-152-8	7440-43-9	20/06/2013	ED/69/2013
84	Cadmium oxide	215-146-2	1306-19-0	20/06/2013	ED/69/2013

85	Dipentyl phthalate (DPP)	205-017-9	131-18-0	20/06/2013	ED/69/2013
86	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20/06/2013	ED/69/2013
87	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	19/12/2012	ED/169/2012
88	1,2-diethoxyethane	211-076-1	629-14-1	19/12/2012	ED/169/2012
89	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19/12/2012	ED/169/2012
90	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19/12/2012	ED/169/2012
91	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19/12/2012	ED/169/2012
92	4,4'-oxydianiline and its salts 4,4'-oxydianiline EC no.: 202-977-0 CAS no.: 101-80-4	-	-	19/12/2012	ED/169/2012
93	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	-	-	19/12/2012	ED/169/2012
94	4-aminoazobenzene	200-453-6	60-09-3	19/12/2012	ED/169/2012
95	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19/12/2012	ED/169/2012
96	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	-	-	19/12/2012	ED/169/2012
97	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19/12/2012	ED/169/2012
98	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19/12/2012	ED/169/2012
99	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19/12/2012	ED/169/2012
100	Biphenyl-4-ylamine	202-177-1	92-67-1	19/12/2012	ED/169/2012
101	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19/12/2012	ED/169/2012

102	<p>Cyclohexane-1,2-dicarboxylic anhydride all possible combinations of the cis- and trans-isomers trans-cyclohexane-1,2-dicarboxylic anhydride EC no.: 238-009-9 CAS no.: 14166-21-3</p> <p>Cyclohexane-1,2-dicarboxylic anhydride EC no.: 201-604-9 CAS no.: 85-42-7</p> <p>cis-cyclohexane-1,2-dicarboxylic anhydride EC no.: 236-086-3 CAS no.: 13149-00-3</p>	-	-	19/12/2012	ED/169/2012
103	<p>Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)</p>	204-650-8	123-77-3	19/12/2012	ED/169/2012
104	<p>Dibutyltin dichloride (DBTC)</p>	211-670-0	683-18-1	19/12/2012	ED/169/2012
105	<p>Diethyl sulphate</p>	200-589-6	64-67-5	19/12/2012	ED/169/2012
106	<p>Diisopentyl phthalate</p>	210-088-4	605-50-5	19/12/2012	ED/169/2012
107	<p>Dimethyl sulphate</p>	201-058-1	77-78-1	19/12/2012	ED/169/2012
108	<p>Dinoseb (6-sec-butyl-2,4-dinitrophenol)</p>	201-861-7	88-85-7	19/12/2012	ED/169/2012
109	<p>Dioxobis(stearato)trilead</p>	235-702-8	12578-12-0	19/12/2012	ED/169/2012
110	<p>Fatty acids, C16-18, lead salts</p>	292-966-7	91031-62-8	19/12/2012	ED/169/2012
111	<p>Furan</p>	203-727-3	110-00-9	19/12/2012	ED/169/2012
112	<p>Henicosafuoroundecanoic acid</p>	218-165-4	2058-94-8	19/12/2012	ED/169/2012
113	<p>Heptacosafuorotetradecanoic acid</p>	206-803-4	376-06-7	19/12/2012	ED/169/2012
114	<p>Hexahydromethylphthalic anhydride including cis- and trans- stereo isomeric forms and all possible combinations of the isomers Hexahydro-1-methylphthalic anhydride EC no.: 256-356-4 CAS no.: 48122-14-1</p> <p>Hexahydromethylphthalic anhydride EC no.: 247-094-1 CAS no.: 25550-51-0</p> <p>Hexahydro-4-methylphthalic anhydride EC no.: 243-072-0 CAS no.: 19438-60-9</p>	-	-	19/12/2012	ED/169/2012

	Hexahydro-3-methylphthalic anhydride EC no.: 260-566-1 CAS no.: 57110-29-9				
115	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19/12/2012	ED/169/2012
116	Lead cyanamidate	244-073-9	20837-86-9	19/12/2012	ED/169/2012
117	Lead dinitrate	233-245-9	10099-74-8	19/12/2012	ED/169/2012
118	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19/12/2012	ED/169/2012
119	Lead oxide sulfate	234-853-7	12036-76-9	19/12/2012	ED/169/2012
120	Lead titanium trioxide	235-038-9	12060-00-3	19/12/2012	ED/169/2012
121	Lead titanium zirconium oxide	235-727-4	12626-81-2	19/12/2012	ED/169/2012
122	Methoxyacetic acid	210-894-6	625-45-6	19/12/2012	ED/169/2012
123	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19/12/2012	ED/169/2012
124	N,N-dimethylformamide	200-679-5	68-12-2	19/12/2012	ED/169/2012
125	N-methylacetamide	201-182-6	79-16-3	19/12/2012	ED/169/2012
126	N-pentyl-isopentylphthalate	-	776297-69-9	19/12/2012	ED/169/2012
127	o-aminoazotoluene	202-591-2	97-56-3	19/12/2012	ED/169/2012
128	o-toluidine	202-429-0	95-53-4	19/12/2012	ED/169/2012
129	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19/12/2012	ED/169/2012
130	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	19/12/2012	ED/169/2012
131	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19/12/2012	ED/169/2012
132	Pyrochlore, antimony lead yellow -	232-382-1	8012-00-8	19/12/2012	ED/169/2012
133	Silicic acid (H₂Si₂O₅), 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	272-271-5	68784-75-8	19/12/2012	ED/169/2012
134	Silicic acid, lead salt	234-363-3	11120-22-2	19/12/2012	ED/169/2012
135	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19/12/2012	ED/169/2012

136	Tetraethyllead	201-075-4	78-00-2	19/12/2012	ED/169/2012
137	Tetralead trioxide sulphate	235-380-9	12202-17-4	19/12/2012	ED/169/2012
138	Tricosafuorododecanoic acid	206-203-2	307-55-1	19/12/2012	ED/169/2012
139	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19/12/2012	ED/169/2012
140	Trilead dioxide phosphonate	235-252-2	12141-20-7	19/12/2012	ED/169/2012
141	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	18/06/2012	ED/87/2012
142	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18/06/2012	ED/87/2012
143	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18/06/2012	ED/87/2012
144	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	18/06/2012	ED/87/2012
145	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	18/06/2012	ED/87/2012
146	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18/06/2012	ED/87/2012
147	[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	18/06/2012	ED/87/2012
148	[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	18/06/2012	ED/87/2012
149	Diboron trioxide	215-125-8	1303-86-2	18/06/2012	ED/87/2012
150	Formamide	200-842-0	75-12-7	18/06/2012	ED/87/2012
151	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18/06/2012	ED/87/2012

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152	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18/06/2012	ED/87/2012
153	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	229-851-8	6786-83-0	18/06/2012	ED/87/2012
154	1,2-dichloroethane	203-458-1	107-06-2	19/12/2011	ED/77/2011
155	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19/12/2011	ED/77/2011
156	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	19/12/2011	ED/77/2011
157	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19/12/2011	ED/77/2011
158	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	19/12/2011	ED/77/2011 ED/95/2012
159	Arsenic acid	231-901-9	7778-39-4	19/12/2011	ED/77/2011
160	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19/12/2011	ED/77/2011
161	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011	ED/77/2011
162	Calcium arsenate	231-904-5	7778-44-1	19/12/2011	ED/77/2011
163	Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011	ED/77/2011
164	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011	ED/77/2011
165	Lead diazide, Lead azide	236-542-1	13424-46-9	19/12/2011	ED/77/2011

166	Lead dipicrate	229-335-2	6477-64-1	19/12/2011	ED/77/2011
167	Lead styphnate	239-290-0	15245-44-0	19/12/2011	ED/77/2011
168	N,N-dimethylacetamide	204-826-4	127-19-5	19/12/2011	ED/77/2011
169	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19/12/2011	ED/77/2011
170	Phenolphthalein	201-004-7	77-09-8	19/12/2011	ED/77/2011
171	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	19/12/2011	ED/77/2011
172	Trilead diarsenate	222-979-5	3687-31-8	19/12/2011	ED/77/2011
173	<p>Zirconia Aluminosilicate Refractory Ceramic Fibres</p> <p>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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight</p>	-	-	19/12/2011	ED/77/2011 ED/95/2012
174	1,2,3-trichloropropane	202-486-1	96-18-4	20/06/2011	ED/31/2011
175	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20/06/2011	ED/31/2011
176	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20/06/2011	ED/31/2011
177	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20/06/2011	ED/31/2011
178	2-ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011	ED/31/2011
179	Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011	ED/31/2011
180	Strontium chromate	232-142-6	7789-06-2	20/06/2011	ED/31/2011
181	2-ethoxyethanol	203-804-1	110-80-5	15/12/2010	ED/95/2010

182	2-methoxyethanol	203-713-7	109-86-4	15/12/2010	ED/95/2010
183	<p>Acids generated from chromium trioxide and their oligomers Oligomers of chromic acid and dichromic acid EC no.: - CAS no.: -</p> <p>Dichromic acid EC no.: 236-881-5 CAS no.: 7738-94-5</p> <p>Chromic acid EC no.: 231-801-5 CAS no.: 13530-68-2</p>	-	-	15/12/2010	ED/95/2010
184	Chromium trioxide	215-607-8	1333-82-0	15/12/2010	ED/95/2010
185	Cobalt(II) carbonate	208-169-4	513-79-1	15/12/2010	ED/95/2010
186	Cobalt(II) diacetate	200-755-8	71-48-7	15/12/2010	ED/95/2010
187	Cobalt(II) dinitrate	233-402-1	10141-05-6	15/12/2010	ED/95/2010
188	Cobalt(II) sulphate	233-334-2	10124-43-3	15/12/2010	ED/95/2010
189	Ammonium dichromate	232-143-1	7789-09-5	18/06/2010	ED/30/2010
190	<p>Boric acid EC No. 233-139-2 and EC No. 234-343-4 Boric acid, crude natural EC no.: 234-343-4 CAS no.: 11113-50-1</p> <p>Boric acid EC no.: 233-139-2 CAS no.: 10043-35-3</p>	-	-	18/06/2010	ED/30/2010
191	Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4	18/06/2010	ED/30/2010
192	Potassium chromate	232-140-5	7789-00-6	18/06/2010	ED/30/2010
193	Potassium dichromate	231-906-6	7778-50-9	18/06/2010	ED/30/2010
194	Sodium chromate	231-889-5	7775-11-3	18/06/2010	ED/30/2010
195	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18/06/2010	ED/30/2010
196	Trichloroethylene	201-167-4	79-01-6	18/06/2010	ED/30/2010
197	Acrylamide	201-173-7	79-06-1	30/03/2010	ED/68/2009
198	2,4-dinitrotoluene	204-450-0	121-14-2	13/01/2010	ED/68/2009
199	Anthracene oil	292-602-7	90640-80-5	13/01/2010	ED/68/2009

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200	Anthracene oil, anthracene paste -	292-603-2	90640-81-6	13/01/2010	ED/68/2009
201	Anthracene oil, anthracene paste, anthracene fraction -	295-275-9	91995-15-2	13/01/2010	ED/68/2009
202	Anthracene oil, anthracene paste, distn. lights -	295-278-5	91995-17-4	13/01/2010	ED/68/2009
203	Anthracene oil, anthracene-low -	292-604-8	90640-82-7	13/01/2010	ED/68/2009
204	Diisobutyl phthalate	201-553-2	84-69-5	13/01/2010	EU/2017/446 2 ED/30/2017 ED/68/2009
205	Lead chromate	231-846-0	7758-97-6	13/01/2010	ED/68/2009
206	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) -	235-759-9	12656-85-8	13/01/2010	ED/68/2009
207	Lead sulfochromate yellow (C.I. Pigment Yellow 34) -	215-693-7	1344-37-2	13/01/2010	ED/68/2009
208	Pitch, coal tar, high-temp. -	266-028-2	65996-93-2	13/01/2010	ED/68/2009
209	Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13/01/2010	ED/68/2009
210	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28/10/2008	ED/67/2008
211	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	28/10/2008	ED/67/2008
212	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28/10/2008	ED/67/2008
213	Anthracene	204-371-1	120-12-7	28/10/2008	ED/67/2008
214	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28/10/2008	EU/2017/446 2 ED/30/2017 ED/67/2008
215	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	28/10/2008	EU/2017/446 2 ED/108/2014 ED/30/2017 ED/67/2008

216	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	28/10/2008	ED/67/2008
217	Cobalt dichloride	231-589-4	7646-79-9	28/10/2008	ED/31/2011 ED/67/2008
218	Diarsenic pentaoxide	215-116-9	1303-28-2	28/10/2008	ED/67/2008
219	Diarsenic trioxide	215-481-4	1327-53-3	28/10/2008	ED/67/2008
220	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28/10/2008	EU/2017/446 2 ED/30/2017 ED/67/2008
221	<p>Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified Hexabromocyclododecane EC no.: 247-148-4 CAS no.: 25637-99-4</p> <p>1,2,5,6,9,10-hexabromocyclododecane EC no.: 221-695-9 CAS no.: 3194-55-6</p> <p>alpha-hexabromocyclododecane EC no.: - CAS no.: 134237-50-6</p> <p>beta-hexabromocyclododecane EC no.: - CAS no.: 134237-51-7</p> <p>gamma-hexabromocyclododecane EC no.: - CAS no.: 134237-52-8</p>	-	-	28/10/2008	ED/67/2008
222	Lead hydrogen arsenate	232-064-2	7784-40-9	28/10/2008	ED/67/2008
223	Sodium dichromate	234-190-3	10588-01-9, 7789-12-0	28/10/2008	ED/67/2008
224	Triethyl arsenate	427-700-2	15606-95-8	28/10/2008	ED/67/2008

Signature (The Only Representative)



Date: 28/06/2022

武俊, R&D Product Manager/KDX





Date: 28/06/2022

DECLARATION OF COMPLIANCE WITH REACH

Declarant: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Manufacturer: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Product Name: BOPP Matte Thermal Film

Specifications: 17µm, 18µm, 20µm, 22µm, 23µm, 25µm, 26µm, 27µm, 28µm, 31µm

The materials intended for the manufacturing of these products are:

- BOPP Matte film (Bi-axially Oriented Polypropylene Matte film)
- EVA(Ethylene Vinyl Acetate)

We declare that the above product, when leaving the factory, has a composition that meet the REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and its amendments 1354/2007, 987/2008, 1272/2008, 134/2009, 552/2009, 276/2010, 453/2010, 143/2011, 207/2011, 252/2011, 253/2011, 366/2011, 494/2011, 109/2012, 125/2012, 412/2012, 835/2012, 836/2012, 847/2012, 848/2012, 126/2013, 348/2013, 517/2013, 1272/2013, 301/2014, 317/2014, 474/2014, 895/2014, 2015/282, 2015/326, 2015/628, 2015/830, 2015/1494, 2016/26, 2016/217, 2016/863, 2016/1005, 2016/1017, 2016/1688, 2016/2235, 2017/227, 2017/706, 2017/999, 2017/1000, 2017/1510, 2018/35, 2018/588, 2018/589, 2018/675, 2018/1513, 2018/1881, 2018/2005, 2019/957, 2019/1148, 2019/1691,2020/171, 2020/507, 2020/878, 2020/1149, 2020/2081,2020/2096,2020/2160,2021/57,2021/979,2021/1199, 2021/1297,2021/2030,2021/2045,2021/2204,2022/586;

Appendix
Candidate List of substances of very high concern for Authorisation

No.	name expand / collapse	EC no.	CAS no.	Date of inclusion	Decision
1	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	10/06/2022	D(2022)4187-DC
2	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17/01/2022	D(2021)10043-DC
3	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	401-850-9	255881-94-8	17/01/2022	D(2021)10043-DC
4	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol	204-327-1	119-47-1	17/01/2022	D(2021)10043-DC
5	(±)-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) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 1782069-81-1) (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 95342-41-9) (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 852541-25-4) (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (EC No.: 253-242-6 CAS No.: 36861-47-9) (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 741687-98-9) (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]he	—	—	17/01/2022	D(2021)10043-DC

	ptan-2-one (EC No.: - CAS No.: 852541-30-1) (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (EC No.: - CAS No.: 852541-21-0)				
6	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	---	---	08/07/2021	D(2021)4569-DC
7	orthoboric acid, sodium salt	---	---	08/07/2021	D(2021)4569-DC
8	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	---	---	08/07/2021	D(2021)4569-DC
9	glutaral	203-856-5	111-30-8	08/07/2021	D(2021)4569-DC
10	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	08/07/2021	D(2021)4569-DC
11	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	---	---	08/07/2021	D(2021)4569-DC
12	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)	---	---	08/07/2021	D(2021)4569-DC
13	1,4-dioxane	204-661-8	123-91-1	08/07/2021	D(2021)4569-DC
14	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-,	---	---	19/01/2021	D(2020)9139-DC

	bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety				
15	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	19/01/2021	D(2020)9139-DC
16	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	25/06/2020	D(2020)4578-DC
17	butyl 4-hydroxybenzoate	202-318-7	94-26-8	25/06/2020	D(2020)4578-DC
18	2-methylimidazole	211-765-7	693-98-1	25/06/2020	D(2020)4578-DC
19	1-vinylimidazole	214-012-0	1072-63-5	25/06/2020	D(2020)4578-DC
20	Perfluorobutane sulfonic acid (PFBS) and its salts	—	—	16/01/0020	ECHA-01-2020
21	Diisohexyl phthalate	276-090-2	71850-09-4	16/01/0020	ECHA-01-2020
22	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	16/01/0020	ECHA-01-2020
23	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	16/01/0020	ECHA-01-2020
24	<p>Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)</p> <p>tris(4-nonylphenyl, branched) phosphite EC No.: 701-028-2 CAS No.: -</p> <p>Tris(nonylphenyl) phosphite EC No.: 247-759-6 CAS No.: 26523-78-4</p> <p>Phenol, 4-nonyl-, phosphite (3:1) EC No.: 608-492-4 CAS No.: 3050-88-2</p>	—	—	16/07/2019	ED/71/2019
25	4-tert-butylphenol	202-679-0	98-54-4	16/07/2019	ED/71/2019 EU/2019/1194
26	2-methoxyethyl acetate	203-772-9	110-49-6	16/07/2019	ED/71/2019

27	<p>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof</p> <p>Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate EC No.:266-578-3 CAS No.: 67118-55-2</p> <p>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid EC No.:236-236-8 CAS No.: 13252-13-6</p> <p>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride EC No.: 218-173-8 CAS No.: 2062-98-8</p> <p>Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate EC No.: 700-242-3 CAS No.: 62037-80-3</p>	-	-	16/07/2019	ED/71/2019
28	<p>1,7,7-trimethyl-3-(phenylmethylene)bicyclo [2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC</p>	239-139-9	15087-24-8	15/01/2019	ED/88/2018 EU/2018/2013
29	<p>2,2-bis(4'-hydroxyphenyl)-4-methylpentane</p>	401-720-1	6807-17-6	15/01/2019	ED/88/2018
30	<p>Benzo[k]fluoranthene</p>	205-916-6	207-08-9	15/01/2019	ED/88/2018
31	<p>Fluoranthene</p>	205-912-4	206-44-0; 93951-69-0	15/01/2019	ED/88/2018
32	<p>Phenanthrene</p>	201-581-5	85-01-8	15/01/2019	ED/88/2018
33	<p>Pyrene</p>	204-927-3	129-00-0; 1718-52-1	15/01/2019	ED/88/2018
34	<p>Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA</p>	209-008-0	552-30-7	27/06/2018	ED/61/2018 EU/2018/594
35	<p>Benzo[ghi]perylene</p>	205-883-8	191-24-2	27/06/2018	ED 61/2018
36	<p>Decamethylcyclopentasiloxane D5</p>	208-764-9	541-02-6	27/06/2018	ED 61/2018

37	Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	27/06/2018	EU/2018/636 ED/61/2018
38	Disodium octaborate	234-541-0	12008-41-2	27/06/2018	ED 61/2018
39	Dodecamethylcyclotetrasiloxane D6	208-762-8	540-97-6	27/06/2018	ED 61/2018
40	Ethylenediamine EDA	203-468-6	107-15-3	27/06/2018	ED 61/2018
41	Lead	231-100-4	7439-92-1	27/06/2018	ED 61/2018
42	Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	27/06/2018	ED 61/2018
43	Terphenyl, hydrogenated	262-967-7	61788-32-7	27/06/2018	ED 61/2018
44	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"™) covering any of its individual anti- and syn-isomers or any combination thereof	-	-	15/01/2018	ED 01/2018
45	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	15/01/2018	ED 01/2018
46	Cadmium carbonate	208-168-9	513-78-0	15/01/2018	ED 01/2018
47	Cadmium hydroxide	244-168-5	21041-95-2	15/01/2018	ED 01/2018
48	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	15/01/2018	ED 01/2018
49	Chrysene	205-923-4	218-01-9, 1719-03-5	15/01/2018	ED 01/2018
50	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)	-	-	15/01/2018	ED 01/2018
51	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	-	07/07/2017	ED/30/2017
52	4,4'-isopropylidenediphenol Bisphenol A; BPA	201-245-8	80-05-7	12/01/2017	ED/30/2017 ED/01/2017 ED 01/2018
53	4-heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon	-	-	12/01/2017	ED/01/2017

	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				
54	<p>Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Decanoic acid, nonadecafluoro-, sodium salt EC no.: - CAS no.: 3830-45-3</p> <p>Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2</p> <p>Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7</p>	-	-	12/01/2017	ED/01/2017
55	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017	ED/01/2017
56	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	20/06/2016	ED/21/2016
57	1,3-propanesultone	214-317-9	1120-71-4	17/12/2015	ED/79/2015
58	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17/12/2015	ED/79/2015
59	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17/12/2015	ED/79/2015
60	Nitrobenzene	202-716-0	98-95-3	17/12/2015	ED/79/2015
61	<p>Perfluorononan-1-oic-acid and its sodium and ammonium salts Ammonium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 4149-60-4</p> <p>Perfluorononan-1-oic-acid EC no.: 206-801-3 CAS no.: 375-95-1</p> <p>Sodium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 21049-39-8</p>	-	-	17/12/2015	ED/79/2015
62	<p>1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)</p>	-	-	15/06/2015	ED_39_2015.pdf

	<p>1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters EC no.: 272-013-1 CAS no.: 68648-93-1</p> <hr/> <p>1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters EC no.: 271-094-0 CAS no.: 68515-51-5</p>				
63	<p>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 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: - CAS no.: -</p> <hr/> <p>5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: - CAS no.: -</p>	-	-	15/06/2015	ED/39/2015
64	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17/12/2014	ED/108/2014
65	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17/12/2014	ED/108/2014
66	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17/12/2014	ED/108/2014
67	Cadmium fluoride	232-222-0	7790-79-6	17/12/2014	ED/108/2014
68	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17/12/2014	ED/108/2014
69	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)	-	-	17/12/2014	ED/108/2014
70	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	16/06/2014	ED/49/2014
71	Cadmium chloride	233-296-7	10108-64-2	16/06/2014	ED/49/2014

72	<p>Sodium perborate, perboric acid, sodium salt Sodium perborate EC no.: 239-172-9 CAS no.: 15120-21-5</p> <hr/> <p>Perboric acid, sodium salt EC no.: 234-390-0 CAS no.: 11138-47-9</p>	-	-	16/06/2014	ED/49/2014
73	Sodium peroxometaborate	231-556-4	7632-04-4	16/06/2014	ED/49/2014
74	Cadmium sulphide	215-147-8	1306-23-6	16/12/2013	ED/121/2013
75	Diethyl phthalate	201-559-5	84-75-3	16/12/2013	ED/121/2013
76	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	16/12/2013	ED/121/2013
77	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)	217-710-3	1937-37-7	16/12/2013	ED/121/2013
78	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16/12/2013	ED/121/2013
79	Lead di(acetate)	206-104-4	301-04-2	16/12/2013	ED/121/2013
80	Triethyl phosphate	246-677-8	25155-23-1	16/12/2013	ED/121/2013
81	<p>4-Nonylphenol, branched and linear, ethoxylated</p> <p>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</p>	-	-	20/06/2013	ED/69/2013
82	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20/06/2013	ED/69/2013
83	Cadmium	231-152-8	7440-43-9	20/06/2013	ED/69/2013
84	Cadmium oxide	215-146-2	1306-19-0	20/06/2013	ED/69/2013
85	Dipentyl phthalate (DPP)	205-017-9	131-18-0	20/06/2013	ED/69/2013
86	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20/06/2013	ED/69/2013

87	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0	19/12/2012	ED/169/2012
88	1,2-diethoxyethane	211-076-1	629-14-1	19/12/2012	ED/169/2012
89	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19/12/2012	ED/169/2012
90	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19/12/2012	ED/169/2012
91	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19/12/2012	ED/169/2012
92	4,4'-oxydianiline and its salts 4,4'-oxydianiline EC no.: 202-977-0 CAS no.: 101-80-4	-	-	19/12/2012	ED/169/2012
93	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	-	-	19/12/2012	ED/169/2012
94	4-aminoazobenzene	200-453-6	60-09-3	19/12/2012	ED/169/2012
95	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19/12/2012	ED/169/2012
96	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	-	-	19/12/2012	ED/169/2012
97	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19/12/2012	ED/169/2012
98	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19/12/2012	ED/169/2012
99	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19/12/2012	ED/169/2012
100	Biphenyl-4-ylamine	202-177-1	92-67-1	19/12/2012	ED/169/2012
101	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19/12/2012	ED/169/2012
102	Cyclohexane-1,2-dicarboxylic anhydride all possible combinations of the cis- and trans-isomers	-	-	19/12/2012	ED/169/2012

	<p>trans-cyclohexane-1,2-dicarboxylic anhydride EC no.: 238-009-9 CAS no.: 14166-21-3</p> <p>Cyclohexane-1,2-dicarboxylic anhydride EC no.: 201-604-9 CAS no.: 85-42-7</p> <p>.....</p> <p>cis-cyclohexane-1,2-dicarboxylic anhydride EC no.: 236-086-3 CAS no.: 13149-00-3</p>				
103	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	19/12/2012	ED/169/2012
104	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19/12/2012	ED/169/2012
105	Diethyl sulphate	200-589-6	64-67-5	19/12/2012	ED/169/2012
106	Diisopentyl phthalate	210-088-4	605-50-5	19/12/2012	ED/169/2012
107	Dimethyl sulphate	201-058-1	77-78-1	19/12/2012	ED/169/2012
108	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19/12/2012	ED/169/2012
109	Dioxobis(stearato)trilead	235-702-8	12578-12-0	19/12/2012	ED/169/2012
110	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19/12/2012	ED/169/2012
111	Furan	203-727-3	110-00-9	19/12/2012	ED/169/2012
112	Henicosfluoroundecanoic acid	218-165-4	2058-94-8	19/12/2012	ED/169/2012
113	Heptacosfluorotetradecanoic acid	206-803-4	376-06-7	19/12/2012	ED/169/2012
114	<p>Hexahydromethylphthalic anhydride including cis- and trans- stereo isomeric forms and all possible combinations of the isomers Hexahydro-1-methylphthalic anhydride EC no.: 256-356-4 CAS no.: 48122-14-1</p> <p>Hexahydromethylphthalic anhydride EC no.: 247-094-1 CAS no.: 25550-51-0</p> <p>Hexahydro-4-methylphthalic anhydride EC no.: 243-072-0 CAS no.: 19438-60-9</p> <p>.....</p> <p>Hexahydro-3-methylphthalic anhydride EC no.: 260-566-1 CAS no.: 57110-29-9</p>	-	-	19/12/2012	ED/169/2012
115	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19/12/2012	ED/169/2012

116	Lead cyanamidate	244-073-9	20837-86-9	19/12/2012	ED/169/2012
117	Lead dinitrate	233-245-9	10099-74-8	19/12/2012	ED/169/2012
118	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19/12/2012	ED/169/2012
119	Lead oxide sulfate	234-853-7	12036-76-9	19/12/2012	ED/169/2012
120	Lead titanium trioxide	235-038-9	12060-00-3	19/12/2012	ED/169/2012
121	Lead titanium zirconium oxide	235-727-4	12626-81-2	19/12/2012	ED/169/2012
122	Methoxyacetic acid	210-894-6	625-45-6	19/12/2012	ED/169/2012
123	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19/12/2012	ED/169/2012
124	N,N-dimethylformamide	200-679-5	68-12-2	19/12/2012	ED/169/2012
125	N-methylacetamide	201-182-6	79-16-3	19/12/2012	ED/169/2012
126	N-pentyl-isopentylphthalate	-	776297-69-9	19/12/2012	ED/169/2012
127	o-aminoazotoluene	202-591-2	97-56-3	19/12/2012	ED/169/2012
128	o-toluidine	202-429-0	95-53-4	19/12/2012	ED/169/2012
129	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19/12/2012	ED/169/2012
130	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	19/12/2012	ED/169/2012
131	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19/12/2012	ED/169/2012
132	Pyrochlore, antimony lead yellow -	232-382-1	8012-00-8	19/12/2012	ED/169/2012
133	Silicic acid (H₂Si₂O₅), 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	272-271-5	68784-75-8	19/12/2012	ED/169/2012
134	Silicic acid, lead salt	234-363-3	11120-22-2	19/12/2012	ED/169/2012
135	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19/12/2012	ED/169/2012
136	Tetraethyllead	201-075-4	78-00-2	19/12/2012	ED/169/2012
137	Tetralead trioxide sulphate	235-380-9	12202-17-4	19/12/2012	ED/169/2012
138	Tricosafuorododecanoic acid	206-203-2	307-55-1	19/12/2012	ED/169/2012

139	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19/12/2012	ED/169/2012
140	Trilead dioxide phosphonate	235-252-2	12141-20-7	19/12/2012	ED/169/2012
141	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	18/06/2012	ED/87/2012
142	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18/06/2012	ED/87/2012
143	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18/06/2012	ED/87/2012
144	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	18/06/2012	ED/87/2012
145	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	18/06/2012	ED/87/2012
146	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18/06/2012	ED/87/2012
147	[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	18/06/2012	ED/87/2012
148	[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	18/06/2012	ED/87/2012
149	Diboron trioxide	215-125-8	1303-86-2	18/06/2012	ED/87/2012
150	Formamide	200-842-0	75-12-7	18/06/2012	ED/87/2012
151	Lead(II) bis(methanesulfonate) -	401-750-5	17570-76-2	18/06/2012	ED/87/2012
152	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18/06/2012	ED/87/2012

153	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	229-851-8	6786-83-0	18/06/2012	ED/87/2012
154	1,2-dichloroethane	203-458-1	107-06-2	19/12/2011	ED/77/2011
155	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19/12/2011	ED/77/2011
156	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	19/12/2011	ED/77/2011
157	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19/12/2011	ED/77/2011
158	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	-	19/12/2011	ED/77/2011 ED/95/2012
159	Arsenic acid	231-901-9	7778-39-4	19/12/2011	ED/77/2011
160	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19/12/2011	ED/77/2011
161	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19/12/2011	ED/77/2011
162	Calcium arsenate	231-904-5	7778-44-1	19/12/2011	ED/77/2011
163	Dichromium tris(chromate)	246-356-2	24613-89-6	19/12/2011	ED/77/2011
164	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19/12/2011	ED/77/2011
165	Lead diazide, Lead azide	236-542-1	13424-46-9	19/12/2011	ED/77/2011
166	Lead dipicrate	229-335-2	6477-64-1	19/12/2011	ED/77/2011
167	Lead styphnate	239-290-0	15245-44-0	19/12/2011	ED/77/2011
168	N,N-dimethylacetamide	204-826-4	127-19-5	19/12/2011	ED/77/2011

169	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19/12/2011	ED/77/2011
170	Phenolphthalein	201-004-7	77-09-8	19/12/2011	ED/77/2011
171	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	19/12/2011	ED/77/2011
172	Trilead diarsenate	222-979-5	3687-31-8	19/12/2011	ED/77/2011
173	<p>Zirconia Aluminosilicate Refractory Ceramic Fibres</p> <p>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 (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</p>	-	-	19/12/2011	ED/77/2011 ED/95/2012
174	1,2,3-trichloropropane	202-486-1	96-18-4	20/06/2011	ED/31/2011
175	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20/06/2011	ED/31/2011
176	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20/06/2011	ED/31/2011
177	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20/06/2011	ED/31/2011
178	2-ethoxyethyl acetate	203-839-2	111-15-9	20/06/2011	ED/31/2011
179	Hydrazine	206-114-9	302-01-2, 7803-57-8	20/06/2011	ED/31/2011
180	Strontium chromate	232-142-6	7789-06-2	20/06/2011	ED/31/2011
181	2-ethoxyethanol	203-804-1	110-80-5	15/12/2010	ED/95/2010
182	2-methoxyethanol	203-713-7	109-86-4	15/12/2010	ED/95/2010
183	Acids generated from chromium trioxide and their oligomers	-	-	15/12/2010	ED/95/2010

	Oligomers of chromic acid and dichromic acid EC no.: - CAS no.: - Dichromic acid EC no.: 236-881-5 CAS no.: 7738-94-5 Chromic acid EC no.: 231-801-5 CAS no.: 13530-68-2				
184	Chromium trioxide	215-607-8	1333-82-0	15/12/2010	ED/95/2010
185	Cobalt(II) carbonate	208-169-4	513-79-1	15/12/2010	ED/95/2010
186	Cobalt(II) diacetate	200-755-8	71-48-7	15/12/2010	ED/95/2010
187	Cobalt(II) dinitrate	233-402-1	10141-05-6	15/12/2010	ED/95/2010
188	Cobalt(II) sulphate	233-334-2	10124-43-3	15/12/2010	ED/95/2010
189	Ammonium dichromate	232-143-1	7789-09-5	18/06/2010	ED/30/2010
190	Boric acid EC No. 233-139-2 and EC No. 234-343-4 Boric acid, crude natural EC no.: 234-343-4 CAS no.: 11113-50-1 Boric acid EC no.: 233-139-2 CAS no.: 10043-35-3	-	-	18/06/2010	ED/30/2010
191	Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4	18/06/2010	ED/30/2010
192	Potassium chromate	232-140-5	7789-00-6	18/06/2010	ED/30/2010
193	Potassium dichromate	231-906-6	7778-50-9	18/06/2010	ED/30/2010
194	Sodium chromate	231-889-5	7775-11-3	18/06/2010	ED/30/2010
195	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18/06/2010	ED/30/2010
196	Trichloroethylene	201-167-4	79-01-6	18/06/2010	ED/30/2010
197	Acrylamide	201-173-7	79-06-1	30/03/2010	ED/68/2009
198	2,4-dinitrotoluene	204-450-0	121-14-2	13/01/2010	ED/68/2009
199	Anthracene oil -	292-602-7	90640-80-5	13/01/2010	ED/68/2009
200	Anthracene oil, anthracene paste -	292-603-2	90640-81-6	13/01/2010	ED/68/2009

201	Anthracene oil, anthracene paste, anthracene fraction -	295-275-9	91995-15-2	13/01/2010	ED/68/2009
202	Anthracene oil, anthracene paste, distn. lights -	295-278-5	91995-17-4	13/01/2010	ED/68/2009
203	Anthracene oil, anthracene-low -	292-604-8	90640-82-7	13/01/2010	ED/68/2009
204	Diisobutyl phthalate	201-553-2	84-69-5	13/01/2010	EU/2017/446 2 ED/30/2017 ED/68/2009
205	Lead chromate	231-846-0	7758-97-6	13/01/2010	ED/68/2009
206	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) -	235-759-9	12656-85-8	13/01/2010	ED/68/2009
207	Lead sulfochromate yellow (C.I. Pigment Yellow 34) -	215-693-7	1344-37-2	13/01/2010	ED/68/2009
208	Pitch, coal tar, high-temp. -	266-028-2	65996-93-2	13/01/2010	ED/68/2009
209	Tris(2-chloroethyl) phosphate	204-118-5	115-96-8	13/01/2010	ED/68/2009
210	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28/10/2008	ED/67/2008
211	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	28/10/2008	ED/67/2008
212	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28/10/2008	ED/67/2008
213	Anthracene	204-371-1	120-12-7	28/10/2008	ED/67/2008
214	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28/10/2008	EU/2017/446 2 ED/30/2017 ED/67/2008
215	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	28/10/2008	EU/2017/446 2 ED/108/2014 ED/30/2017 ED/67/2008
216	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	28/10/2008	ED/67/2008
217	Cobalt dichloride	231-589-4	7646-79-9	28/10/2008	ED/31/2011 ED/67/2008

218	Diarsenic pentaoxide	215-116-9	1303-28-2	28/10/2008	ED/67/2008
219	Diarsenic trioxide	215-481-4	1327-53-3	28/10/2008	ED/67/2008
220	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28/10/2008	EU/2017/446 2 ED/30/2017 ED/67/2008
221	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified Hexabromocyclododecane EC no.: 247-148-4 CAS no.: 25637-99-4 1,2,5,6,9,10-hexabromocyclododecane EC no.: 221-695-9 CAS no.: 3194-55-6 alpha-hexabromocyclododecane EC no.: - CAS no.: 134237-50-6 beta-hexabromocyclododecane EC no.: - CAS no.: 134237-51-7 gamma-hexabromocyclododecane EC no.: - CAS no.: 134237-52-8	-	-	28/10/2008	ED/67/2008
222	Lead hydrogen arsenate	232-064-2	7784-40-9	28/10/2008	ED/67/2008
223	Sodium dichromate	234-190-3	10588-01-9, 7789-12-0	28/10/2008	ED/67/2008
224	Triethyl arsenate	427-700-2	15606-95-8	28/10/2008	ED/67/2008

Signature (The Only Representative)



Date: 28/06/2022

武俊, R&D Product Manager/KDX





Date: 26/07/2022

DECLARATION OF COMPLIANCE WITH FOOD CONTACT REGULATIONS

Declarant: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Manufacturer: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Product Name: Classic/Premium gloss BOPP thermal film

Specifications: 16µm, 17µm, 18µm, 20µm, 22µm, 24µm, 25µm, 28µm, 30µm

The materials intended for the manufacturing of these products are:

- BOPP Gloss film (Bi-axially Oriented Polypropylene Gloss film)
- EVA(Ethylene Vinyl Acetate)

We declare that the above product, when leaving the factory, has a composition that meet the relevant requirements laid down in the following Commission Regulation and Directive:

- Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment 321/2011, 1282/2011, 1183/2012, 202/2014, 865/2014, 2015/174, 2016/1416, 2017/752, 2018/79, 2018/213, 2018/831, **2019/37, 2019/988, 2019/1338, 2020/1245**;
- Article 3, 11(5), 15 and 17 of Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food and its amendment 596/2009 ;
- Regulation (EC) No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food and its amendment 282/2008;
- Regulation (EC) No 1895/2005 on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food;

- Regulation (EC) No 1333/2008 on food additives and its amendment 238/2010, 1129/2011, 1152/2013, 1130/2011, 1131/2011, 232/2012, 380/2012, 470/2012, 471/2012, 472/2012, 570/2012, 583/2012, 675/2012, 1049/2012, 1057/2012, 1147/2012, 1148/2012, 1149/2012, 1166/2012, 25/2013, 244/2013, 256/2013, 438/2013, 509/2013, 510/2013, 723/2013, 738/2013, 739/2013, 816/2013, 817/2013, 818/2013, 913/2013, 1068/2013, 1069/2013, 1274/2013, 59/2014, 264/2014, 298/2014, 497/2014, 505/2014, 506/2014, 601/2014, 685/2014, 923/2014, 957/2014, 969/2014, 1084/2014, 1092/2014, 1093/2014, 2015/537, 2015/538, 2015/639, 2015/647, 2015/649, 2015/1362, 2015/1378, 2015/1739, 2015/1832, 2016/56, 2016/263, 2016/324, 2016/441, 2016/479, 2016/683, 2016/691, 2016/1776, 2017/335, 2017/839, 2017/871, 2017/874, 2017/1270, 2017/1271, 2017/1399, 2018/74, 2018/97, 2018/627, 2018/677, 2018/682, **2018/1461, 2018/1481, 2018/1497, 2019/800, 2019/801, 2019/891, 2019/1676, 2020/268, 2020/279, 2020/351, 2020/355, 2020/356, 2020/771, 2020/1419, 2020/1819, 2021/1156, 2021/1175, 2022/63, 2022/141, 2022/1023, 2022/1037, 2022/1038 ;**
 - Regulation (EC) No 1334/2008 on flavourings and certain food ingredients with flavouring properties for use in and on foods and its amendment 872/2012, 545/2013, 985/2013, 246/2014, 1098/2014, 2015/648, 2015/1102, 2015/1760, 2016/54, 2016/55, 2016/178, 2016/637, 2016/692, 2016/1244, 2017/378, 2017/1250, 2018/678, **2018/1246, 2018/1482, 2018/1649, 2019/36, 2019/799, 2020/1681, 2021/1532, 2021/1916, 2021/1917;**
 - Regulation (EC) No 282/2008 on recycled plastic materials and articles intended to come into contact with foods and its amendment 2015/1906;
 - COUNCIL DIRECTIVE 85/572/EEC laying down the list of simulants to be used for testing migration of constituents of plastic materials and articles intended to come into contact with foodstuffs and its amendment 2007/19/EC, 10/2011;
 - COUNCIL DIRECTIVE 82/711/EEC laying down the basic rules necessary for testing migration of the constituents of plastic materials and articles intended to come into contact with foodstuffs and its amendment 93/8/EEC, 97/48/EC;
 - Directive 94/62/EC on packaging and packaging waste and its amendment 1882/2003, 2004/12/EC, 2005/20/EC, 219/2009, 2013/2/EU, 2015/720, **2018/852;**
- REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and its amendment 1354/2007, 987/2008, 1272/2008, 134/2009, 552/2009, 276/2010, 453/2010, 143/2011, 207/2011, 252/2011, 253/2011, 366/2011, 494/2011, 109/2012, 125/2012, 412/2012, 835/2012, 836/2012, 847/2012, 848/2012, 126/2013, 348/2013, 517/2013, 1272/2013, 301/2014, 317/2014, 474/2014, 895/2014, 2015/282, 2015/326, 2015/628, 2015/830, 2015/1494, 2016/26, 2016/217, 2016/863, 2016/1005, 2016/1017, 2016/1688, 2016/2235, 2017/227, 2017/706, 2017/999, 2017/1000, 2017/1510, 2018/35, 2018/588, 2018/589, **2018/675, 2018/1513, 2018/1881, 2018/2005, 2019/957, 2019/1148, 2019/1691, 2020/171, 2020/507, 2020/878, 2020/1149, 2020/2081, 2020/2096, 2020/2160, 2021/57, 2021/979, 2021/1199, 2021/1297, 2021/2030, 2021/2045, 2021/2204, 2022/586;**
- Commission Regulation (EC) No 450/2009 active and intelligent materials and articles intended to come into contact with food

The above product can be in contact with the following type of foods:

- All aqueous foods
- All acidic foods

- All fatty foods
- All alcoholic foods

TEST Results for Regulation (EU) No 10/2011:

Test Requested	Conclusion
Overall migration	PASS
Specific migration of heavy metal	PASS

Overall migration

Test Requested: In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of conditions and EN1186-1:2002 for selection of test methods;

EN1186-3:2002 aqueous food simulants by total immersion method;

EN1186-2:2002 olive oil by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall migration</u>
10% ethanol	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic acid (W/V) Aqueous solution	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²
Rectified olive oil	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²

Notes:

(1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 6mg/kg.

(2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.

Specific Migration of Heavy Metal

Test Requested: In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of heavy metal.

Test Method: With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition: 40°C 240.0 hr (s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND



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Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminium	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND

Remark:

(1)MDL=Method Detection Limit

(2)ND=Not Detected (<MDL)

The BOPP gloss Thermal film can contain some other substances for which a specific migration limit(SML) is established. But the SML will not be exceeded even to a maximum film thickness of 350um (assuming that 1 kg of food is packaged with 6 dm² of film).

FCM substance No.	Ref. No.	CAS No.	SML(mg/kg)
106	89040	057-11-4	25
157	74880	084-74-2	0.3
234	19960	108-31-6	30(T)
283	74640	117-81-7	1.5
433	68320	2082-79-3	6
500	38560	7128-64-5	0.6
661	95360	27676-62-6	5
760	83595	119345-01-6	18

DUAL-USE ADDITIVES

The dual use additives as silicon dioxide and GMS restricted in (EU) No. 10/2011 and (EC) No 1333/2008 are present in BOPP Gloss Thermal Films.

FCM substance No	E-number	Ref. No	CAS No	Substance name	SML (T) [mg/kg]
41	E471	56486	-	GMS	-
504	E551	86240	0007631-86-9	Silicon dioxide	-

But, their migration levels comply with (EU) No. 10/2011.

OTHER SUBSTANCES

BOPP Gloss Thermal Films above are not intentionally added the substances as follows: Phthalates, Lead, Cadmium, Mercury, Hexavalent Chromium, Sum of PBBs, Sum of PBDEs, Halogen, Soluble Heavy Metal Contents, Substances in the Candidate List of SVHC.

USA

The above listed films are suitable for use in food contact applications in compliance with applicable U.S. FDA food packaging regulations. Specifically, the raw materials used in the composition are in compliance with the requirements of the Federal Food & Drug(FDA) and Cosmetic act under FDA 21 CFR 177.1520, 21 CFR 175.300, 21 CFR 175.320, 21 CFR 178.2010 and other applicable regulations in 21 CFR referenced therein..



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RECYCLABILITY:

BOPP Gloss Thermal Films above can be disposed of through incineration substantially. Full combustion of them for which the heat of 24 MJ/kg could be yielded would almost generate carbon dioxide and water. Except for these compliance above, we do not intentionally add some harmful materials restricted by relevant provisions in EU. And customer should use in accordance with the Technical Data Sheet.

武俊
R&L Product Manager/KDX





Date: 26/07/2022

DECLARATION OF COMPLIANCE WITH FOOD CONTACT REGULATIONS

Declarant: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Manufacturer: Zhangjiagang Free Trade Zone Kangde Film Industry Co., Ltd.

Address: west of Taiwan road ,South of Hexin Chemicals ,Zhangjiagang Free Trade Zone, Jiangsu Province ,China

Tel: +86-0512-58329502 Fax: +86-0512-56363625 Web: www.kangdexin.com.cn

Product Name: Premium matte BOPP thermal film

Specifications: 17μm, 18μm, 20μm, 22μm, 23μm, 25μm, 26μm, 27μm, 28μm, 31μm

The materials intended for the manufacturing of these products are:

- BOPP Matte film (Bi-axially Oriented Polypropylene Matte film)
- EVA(Ethylene Vinyl Acetate)

We declare that the above product, when leaving the factory, has a composition that meet the relevant requirements laid down in the following Commission Regulation and Directive:

- Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment 321/2011, 1282/2011, 1183/2012, 202/2014, 865/2014, 2015/174, 2016/1416, 2017/752, 2018/79, 2018/213, 2018/831, **2019/37, 2019/988, 2019/1338, 2020/1245**;
- Article 3, 11(5), 15 and 17 of Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food and its amendment 596/2009 ;
- Regulation (EC) No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food and its amendment 282/2008;
- Regulation (EC) No 1895/2005 on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food;

- Regulation (EC) No 1333/2008 on food additives and its amendment 238/2010, 1129/2011, 1152/2013, 1130/2011, 1131/2011, 232/2012, 380/2012, 470/2012, 471/2012, 472/2012, 570/2012, 583/2012, 675/2012, 1049/2012, 1057/2012, 1147/2012, 1148/2012, 1149/2012, 1166/2012, 25/2013, 244/2013, 256/2013, 438/2013, 509/2013, 510/2013, 723/2013, 738/2013, 739/2013, 816/2013, 817/2013, 818/2013, 913/2013, 1068/2013, 1069/2013, 1274/2013, 59/2014, 264/2014, 298/2014, 497/2014, 505/2014, 506/2014, 601/2014, 685/2014, 923/2014, 957/2014, 969/2014, 1084/2014, 1092/2014, 1093/2014, 2015/537, 2015/538, 2015/639, 2015/647, 2015/649, 2015/1362, 2015/1378, 2015/1739, 2015/1832, 2016/56, 2016/263, 2016/324, 2016/441, 2016/479, 2016/683, 2016/691, 2016/1776, 2017/335, 2017/839, 2017/871, 2017/874, 2017/1270, 2017/1271, 2017/1399, 2018/74, 2018/97, 2018/627, 2018/677, 2018/682, **2018/1461, 2018/1481, 2018/1497, 2019/800, 2019/801, 2019/891, 2019/1676, 2020/268, 2020/279, 2020/351, 2020/355, 2020/356, 2020/771, 2020/1419, 2020/1819, 2021/1156, 2021/1175, 2022/63, 2022/141, 2022/1023, 2022/1037, 2022/1038** ;
 - Regulation (EC) No 1334/2008 on flavourings and certain food ingredients with flavouring properties for use in and on foods and its amendment 872/2012, 545/2013, 985/2013, 246/2014, 1098/2014, 2015/648, 2015/1102, 2015/1760, 2016/54, 2016/55, 2016/178, 2016/637, 2016/692, 2016/1244, 2017/378, 2017/1250, 2018/678, **2018/1246, 2018/1482, 2018/1649, 2019/36, 2019/799, 2020/1681, 2021/1532, 2021/1916, 2021/1917**;
 - Regulation (EC) No 282/2008 on recycled plastic materials and articles intended to come into contact with foods and its amendment 2015/1906;
 - COUNCIL DIRECTIVE 85/572/EEC laying down the list of simulants to be used for testing migration of constituents of plastic materials and articles intended to come into contact with foodstuffs and its amendment 2007/19/EC, 10/2011;
 - COUNCIL DIRECTIVE 82/711/EEC laying down the basic rules necessary for testing migration of the constituents of plastic materials and articles intended to come into contact with foodstuffs and its amendment 93/8/EEC, 97/48/EC;
 - Directive 94/62/EC on packaging and packaging waste and its amendment 1882/2003, 2004/12/EC, 2005/20/EC, 219/2009, 2013/2/EU, 2015/720, **2018/852**;
- REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and its amendment 1354/2007, 987/2008, 1272/2008, 134/2009, 552/2009, 276/2010, 453/2010, 143/2011, 207/2011, 252/2011, 253/2011, 366/2011, 494/2011, 109/2012, 125/2012, 412/2012, 835/2012, 836/2012, 847/2012, 848/2012, 126/2013, 348/2013, 517/2013, 1272/2013, 301/2014, 317/2014, 474/2014, 895/2014, 2015/282, 2015/326, 2015/628, 2015/830, 2015/1494, 2016/26, 2016/217, 2016/863, 2016/1005, 2016/1017, 2016/1688, 2016/2235, 2017/227, 2017/706, 2017/999, 2017/1000, 2017/1510, 2018/35, 2018/588, 2018/589, **2018/675, 2018/1513, 2018/1881, 2018/2005, 2019/957, 2019/1148, 2019/1691, 2020/171, 2020/507, 2020/878, 2020/1149, 2020/2081, 2020/2096, 2020/2160, 2021/57, 2021/979, 2021/1199, 2021/1297, 2021/2030, 2021/2045, 2021/2204, 2022/586**;
- Commission Regulation (EC) No 450/2009 active and intelligent materials and articles intended to come into contact with food

The above product can be in contact with the following type of foods:

- All aqueous foods
- All acidic foods

- All fatty foods
- All alcoholic foods

TEST Results for Regulation (EU) No 10/2011:

Test Requested	Conclusion
Overall migration	PASS
Specific migration of heavy metal	PASS

Overall migration

Test Requested: In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of conditions and EN1186-1:2002 for selection of test methods;

EN1186-3:2002 aqueous food simulants by total immersion method;

EN1186-2:2002 olive oil by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall migration</u>
10% ethanol	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic acid (W/V) Aqueous solution	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²
Rectified olive oil	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²

Notes:

(1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 6mg/kg.

(2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.

Specific Migration of Heavy Metal

Test Requested: In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of heavy metal.

Test Method: With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition: 40°C 240.0 hr (s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND



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Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminium	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND

Remark:

(1)MDL=Method Detection Limit

(2)ND=Not Detected (<MDL)

The BOPP Matte Thermal film can contain some other substances for which a specific migration limit(SML) is established. But the SML will not be exceeded even to a maximum film thickness of 350um (assuming that 1 kg of food is packaged with 6 dm² of film).

FCM substance No.	Ref. No.	CAS No.	SML(mg/kg)
106	89040	057-11-4	25
157	74880	084-74-2	0.3
234	19960	108-31-6	30(T)
283	74640	117-81-7	1.5
433	68320	2082-79-3	6
500	38560	7128-64-5	0.6
661	95360	27676-62-6	5
760	83595	119345-01-6	18

DUAL-USE ADDITIVES

The dual use additives as silicon dioxide and GMS restricted in (EU) No. 10/2011 and (EC) No 1333/2008 are present in BOPP matte Thermal Films.

FCM substance No	E-number	Ref. No	CAS No	Substance name	SML (T) [mg/kg]
41	E471	56486	-	GMS	-
504	E551	86240	0007631-86-9	Silicon dioxide	-

But, their migration levels comply with (EU) No. 10/2011.

OTHER SUBSTANCES

BOPP Matte Thermal Films above are not intentionally added the substances as follows: Phthalates, Lead, Cadmium, Mercury, Hexavalent Chromium, Sum of PBBs, Sum of PBDEs, Halogen, Soluble Heavy Metal Contents, Substances in the Candidate List of SVHC.

USA

The above listed films are suitable for use in food contact applications in compliance with applicable U.S. FDA food packaging regulations. Specifically, the raw materials used in the composition are in compliance with the requirements of the Federal Food & Drug(FDA) and Cosmetic act under FDA 21 CFR 177.1520, 21 CFR 175.300, 21 CFR 175.320, 21 CFR 178.2010 and other applicable regulations in 21 CFR referenced therein..

RECYCLABILITY:

BOPP Matte Thermal Films above can be disposed of through incineration substantially. Full combustion of them for which the heat of 24 MJ/kg could be yielded would almost generate carbon dioxide and water. Except for these compliance above, we do not intentionally add some harmful materials restricted by relevant provisions in EU. And customer should use in accordance with the Technical Data Sheet.



武俊
R&L Product Manager/KDX