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Certification

This is to certify that all products delivered by us don't contain below 144 substances of very high concern (SVHCs) in a concentration above 0.1% w/w in accordance with the REACH regulation .

Appendix 1: The 1st 15 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	4,4 '-Diaminodiphenylmethane	101-77-9	202-947-4	CMR
2	Bis (2-ethyl (hexyl) phthalate)	117-81-7	204-211-0	CMR
3	Anthracene	120-12-7	204-371-1	PBT
4	Diarsenic pentaoxide	1303-28-2	215-116-9	CMR
5	Diarsenic trioxide	1327-53-3	215-481-4	CMR
6	Triethyl arsenate	15606-95-8	427-700-2	CMR
7	Hexabromocyclododecane (HBBCDD)	25637-99-4	247-148-4	PBT
8	Bis (tributyltin)	56-35-9	200-268-0	PBT
9	Cobalt dichloride	7646-79-9	231-589-4	CMR
10	Lead hydrogen arsenate	7784-40-9	232-064-2	CMR
11	Sodium dichromate, dihydrate	7789-12-0	234-190-3	CMR
12	5-tert-butyl-2, 4, 6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	vPvB
13	Dibutyl phthalate (DBP)	84-74-2	201-557-4	CMR
14	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	PBT
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	CMR

Appendix 2: The 2nd 13 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	Anthracene oil	90640-80-5	292-602-7	PBT
2	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	PBT
3	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	PBT
4	Anthracene oil, anthracene-low	90640-82-7	292-604-8	PBT
5	Anthracene oil, anthracene paste	90640-81-6	292-603-2	PBT
6	Coal tar pitch, high temperature	659969-93-2	266-028-2	PBT/ CMR
7	Acrylamide	79-06-1	201-173-7	CMR
8	2,4-Dinitrotoluene	121-14-2	204-450-0	CMR
9	Diisobutyl phthalate	84-69-5	201-553-2	CMR
10	Lead chromate	7758-97-6	231-846-0	CMR
11	Lead chromate molybdate sulfate red (C. I. Pigment Red 104)	12656-85-8	235-759-9	CMR
12	Lead sulfochromate yellow (C. I. Pigment Yellow 34)	1344-37-2	215-693-7	CMR
13	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	CMR

Appendix 3: The 3rd 8 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	Trichloroethylene	79-01-6	201-167-4	CMR
2	Boric acid	10043-35-3 /11113-50-1	233-139-2/ 234-343-4	CMR
3	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	CMR
4	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	CMR
5	Sodium chromate	7775-11-3	231-889-5	CMR
6	Potassium chromate	7789-00-6	232-140-5	CMR
7	Ammonium dichromate	7789-09-5	232-143-1	CMR
8	Potassium dichromate	7778-50-9	231-906-6	CMR

Appendix 4: The 4th 8 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	Cobalt(II) sulphate	10124-43-3	233-334-2	CMR
2	Cobalt(II) dinitrate	10141-05-6	233-402-1	CMR
3	Cobalt(II) carbonate	513-79-1	208-169-4	CMR
4	Cobalt(II) diacetate	71-48-7	200-755-8	CMR
5	2-Methoxyethanol	109-86-4	203-713-7	CMR

6	2-Ethoxyethanol	110-80-5	203-804-1	CMR
7	Chromium trioxide	1333-82-0	215-607-8	CMR
8	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5	CMR

Appendix 5: The 5th 7 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	2-ethoxyethylacetate	111-15-9	203-839-2	Tox for reproduction
2	strontium chromate	7789/6/2	232-142-6	carcinogenic
3	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters	68515-42-4	271-084-6	Tox for reproduction
4	Hydrazine	7803-57-8 302-01-2	206-114-9	carcinogenic
5	1-Methyl-2-pyrrolidinone	872-50-4	212-828-1	Tox for reproduction
6	1,2,3-trichloropropane	96-18-4	202-486-1	Carcinogenic & Tox for reproduction
7	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters	71888-89-6	276-158-1	Tox for reproduction

Appendix 6: The 6th 20 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic
2	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9	234-329-8	Carcinogenic

3	Pentazine chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic
4	Aluminosilicate Refractory Ceramic Fibres (RCF)	---	---	Carcinogenic
5	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	---	---	Carcinogenic
6	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	Carcinogenic
7	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Tox for reproduction
8	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic
9	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	Concern
10	1,2-Dichloroethane	107-06-2	203-458-1	Carcinogenic
11	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Tox for reproduction
12	Arsenic acid	7778-39-4	231-901-9	Carcinogenic
13	Calcium arsenate	7778-44-1	231-904-5	Carcinogenic
14	Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic &Tox for reproduction
15	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	Tox for reproduction
16	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	Carcinogenic
17	Phenolphthalein	77-09-8	201-004-7	Carcinogenic
18	Lead azide Lead diazide	13424-46-9	236-542-1	Tox for reproduction

19	Lead styphnate	15245-44-0	239-290-0	Tox for reproduction
20	Lead dipicrate	6477-64-1	229-335-2	Tox for reproduction

Appendix 7: The 7th 13 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Tox for reproduction
2	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Tox for reproduction
3	Diboron trioxide	1303-86-2	215-125-8	Tox for reproduction
4	Formamide	75-12-7	200-842-0	Tox for reproduction
5	Lead(II)bis(methanesulfonate)	17570-76-2	401-750-5	Tox for reproduction
6	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3	mutagenicity
7	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	423-400-0	mutagenicity
8	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic
9	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic
10	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C. I. Basic Blue 26)	2580-56-5	219-943-6	Carcinogenic
11	4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C. I. Basic Violet 2)	548-62-9	208-953-6	Carcinogenic
12	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	Carcinogenic

13	α, α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	Carcinogenic
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Appendix 8: The 8th 54 SVHC of EU REACH regulation.

No	Substance name	CAS No.	EC No.	Reason for proposing
1	85. Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	PBT; vPvB
2	86. Pentacosaflluorotridecanoic acid	72629-94-8	276-745-2	vPvB
3	87. Tricosaflluorododecanoic acid	307-55-1	206-203-2	vPvB
4	88. Henicosaflluoroundecanoic acid	2058-94-8	218-165-4	vPvB
5	89. Heptacosaflluorotetradecanoic acid	376-06-7	206-803-4	vPvB
6	90. 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	—	—	同等关注物质
7	91. 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	—	—	同等关注物质
8	92. Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	同等关注物质
9	93. Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	同等关注物质
10	94. Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride,	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	同等关注物质
11	95. Methoxy acetic acid	625-45-6	210-894-6	Tox for reproduction
12	96. 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Tox for reproduction

13	97. Diisopentylphthalate	605-50-5	210-088-4	Tox for reproduction
14	98. N-pentyl-isopentylphthalate	776297-69-9	-	Tox for reproduction
15	99. 1,2-Diethoxyethane	629-14-1	211-076-1	Tox for reproduction
16	100. N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	Tox for reproduction
17	101. Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Tox for reproduction
18	102. Acetic acid, lead salt, basic	51404-69-4	257-175-3	Tox for reproduction
19	103. Trilead bis(carbonate)dihydroxide (basic lead carbonate)	1319-46-6	215-290-6	Tox for reproduction
20	104. Lead oxide sulfate	12036-76-9	234-853-7	Tox for reproduction
21	105. [Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Tox for reproduction
22	106. Dioxobis(stearato)trilead	12578-12-0	235-702-8	Tox for reproduction
23	107. Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Tox for reproduction
24	108. Lead cyanamidate	20837-86-9	244-073-9	Tox for reproduction
25	109. Lead dinitrate	10099-74-8	233-245-9	Tox for reproduction
26	110. Lead oxide (lead monoxide)	1317-36-8	215-267-0	Tox for reproduction
27	111. Lead tetroxide (orange lead)	1314-41-6	215-235-6	Tox for reproduction

28	112. Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Tox for reproduction
29	113. Silicic acid, lead salt	11120-22-2	234-363-3	Tox for reproduction
30	114. Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Tox for reproduction
31	115. Tetraethyllead	78-00-2	201-075-4	Tox for reproduction
32	116. Tetralead trioxide sulphate	12202-17-4	235-380-9	Tox for reproduction
33	117. Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Tox for reproduction
34	118. Lead titanium trioxide	12060-00-3	235-038-9	Tox for reproduction
35	119. Lead Titanium Zirconium Oxide	12626-81-2	235-727-4	Tox for reproduction
36	120. Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Tox for reproduction
37	121. Trilead dioxide phosphonate	12141-20-7	235-252-2	Tox for reproduction
38	122. Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5	Tox for reproduction
39	123. Furan	110-00-9	203-727-3	Carcinogenic
40	124. Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	Carcinogenic; mutagenicity
41	125. Diethyl sulphate	64-67-5	200-589-6	Carcinogenic; mutagenicity
42	126. Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic

43	127. 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Tox for reproduction
44	128. Dinoseb	88-85-7	201-861-7	Tox for reproduction
45	129. 4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	Carcinogenic
46	130. 4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic; mutagenicity
47	131. 4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	Carcinogenic
48	132. 4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	Carcinogenic
49	133. 6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic
50	134. Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic
51	135. o-aminoazotoluene	97-56-3	202-591-2	Carcinogenic
52	136. o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	Carcinogenic
53	137. N-methylacetamide	79-16-3	201-182-6	Tox for reproduction
54	138. 1-bromopropane	106-94-5	203-445-0	Tox for reproduction

Appendix9: The 8th 6 SVHC of EU REACH regulation.

1	139. Cadmium	7440-43-9	231-152-8	Carcinogenic
2	140. Cadmium oxide	1306-19-0	215-146-2	Carcinogenic

3	141. Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Tox for reproduction
4	142. Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	Tox for reproduction
5	143. Dipentyl phthalate(DPP)	131-18-0	205-017-9	Tox for reproduction
6	144. 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]	-	-	会对环境引起严重影响的等效物质



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