

PROFESSOR TECHNOLOGY CO.,LTD

INTRODUCTION **Multiband External Antenna** **CP70-3.5db Magnetic Mount** **Declaration of Compliance for REACH**

1. GENERAL DESCRIPTION

Model No
CP70-3.5db-2M-SMA/Male-(HAKS 00004) -900/1800MHz

Below is a table summarizing the Exteral antenna design speification

1.2 Electrical Properties

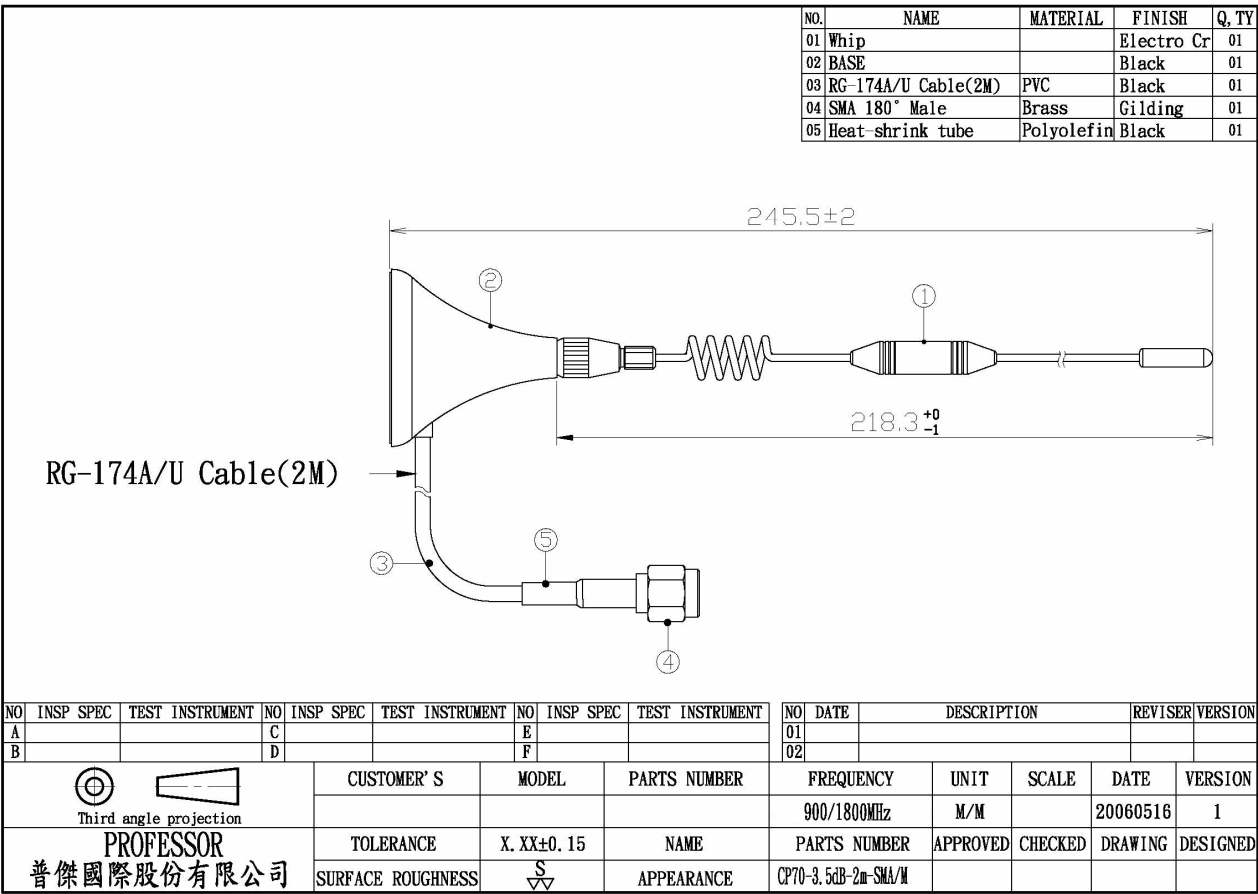
Parameter	Description
Frequency Band	900/1800MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /2 λ Dipole
Return Loss	Please See Data-1
V.S.W.R	2.0:1
Antenna Average Gain	2~3.5dBi
Note: Gain includes the cable loss	

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA-Type
Antenna Dimensions	245.5 mm $\pm$ 2
Antenna Cable Total Length	2000 mm $\pm$ 10
Antenna Color	Black
Operating Temperature Range	-30°C~+60°C
Storage Temperature Range	-35°C~+70°C

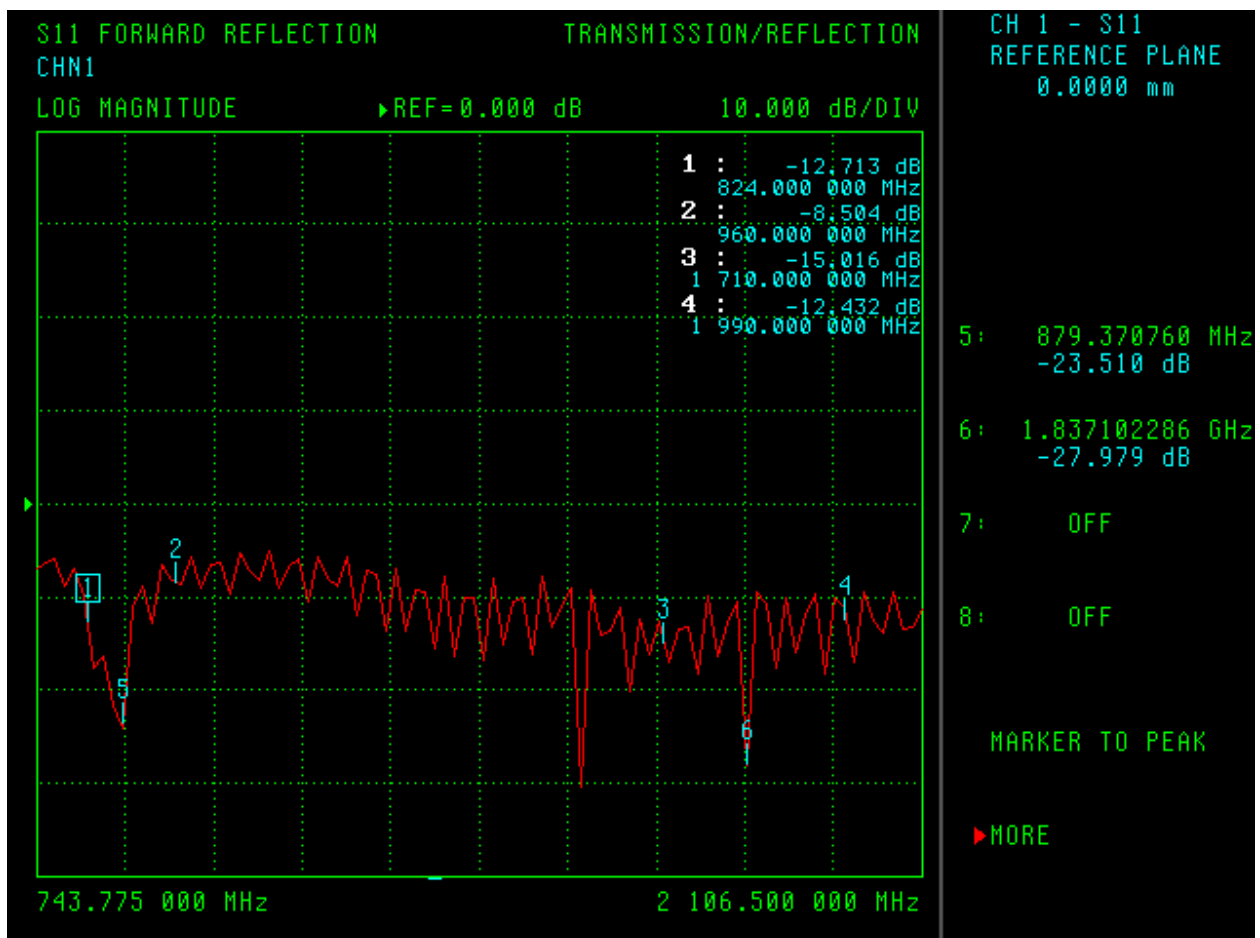
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2. Appearance

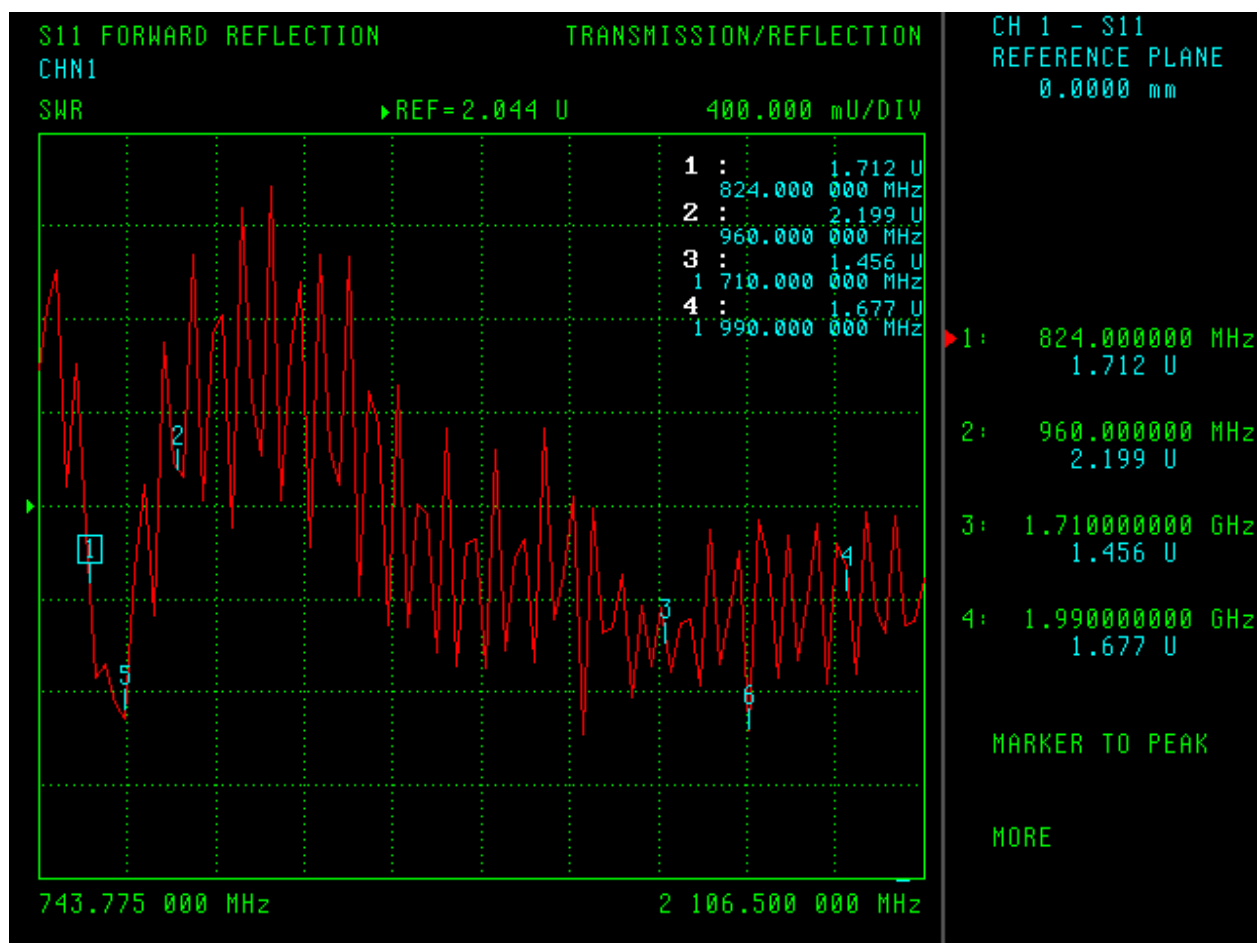


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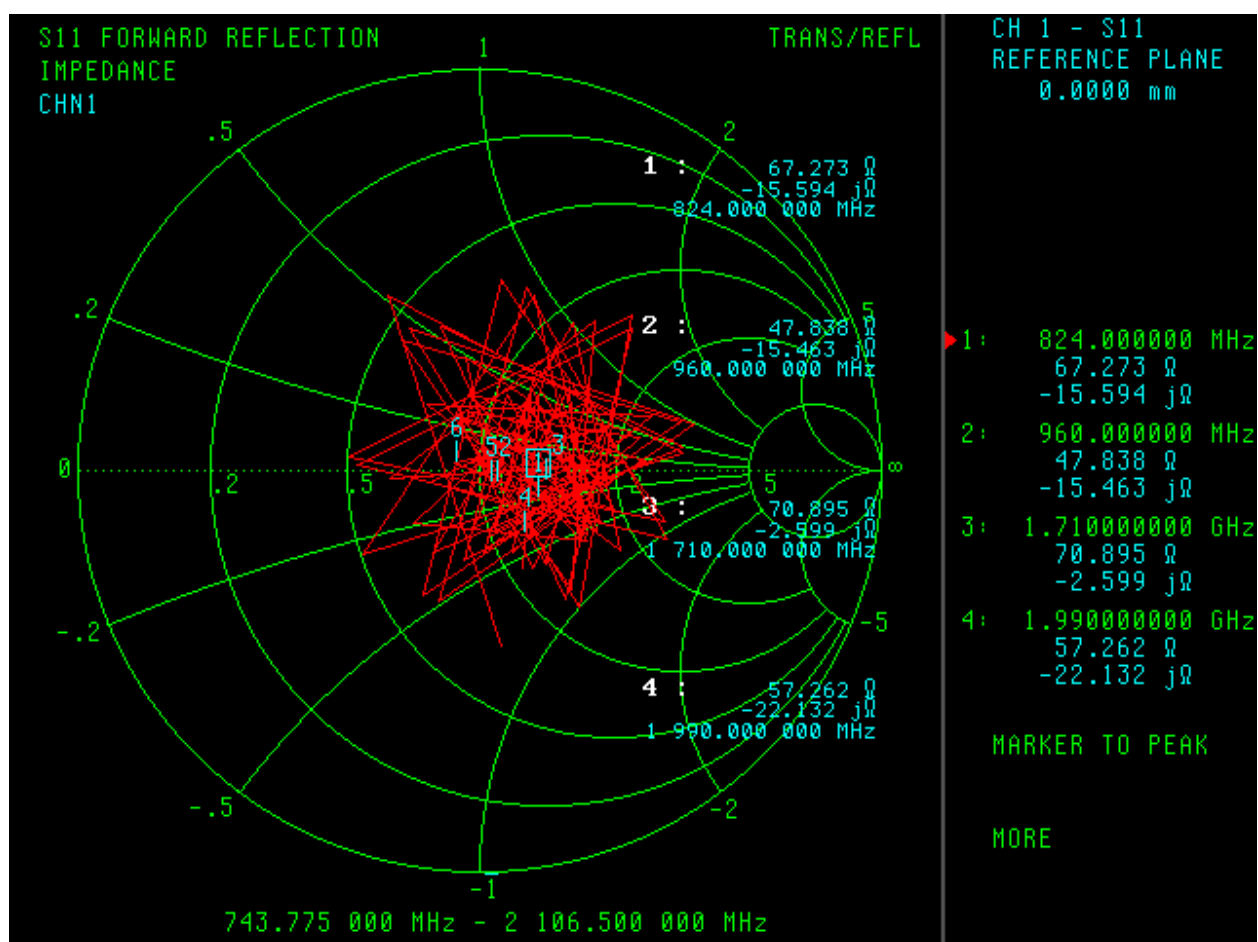
3. Frequency



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Declaration of Compliance for REACH REACH

Model No: CP70-3.5db-2M-SMA/Male (HAKS0004)
(900/1800MHz)

Rev:

Company : PROJYE INTERNATIONAL CO.,LTD./PROFESSOR TECHNOLOGY CO.,LTD.

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We declare and warrant that:

All of the components, subassemblies & finished products provided by the Company to KAREL ELEKTRONIK A.S do not contain any substance on the REACH SVHC Candidate List totalling over one tonne per year and is not present in those products above a concentration of 0.1 % weight per product.

Company Seal :

Authorized Signature

Signature : Jack Liang

Name : JACK LIANG

Title : General Manager

Phone : +886-3-4551081 EXT:206

Date : 15-Mar-2012

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Table 1: REACH SVHC List :

Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	28.10.2008	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)	ED/67/2008
1,2,3-Trichloropropane	202-486-1	96-18-4	20.06.2011	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/31/2011
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20.06.2011	Toxic for reproduction (article 57c)	ED/31/2011
Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5, 236-881-5	7738-94-5, 13530-68-2	15.12.2010	Carcinogenic (article 57a)	ED/95/2010
Cobalt(II) carbonate	208-169-4	513-79-1	15.12.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010

Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Zirconia 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, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight			19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Calcium arsenate	231-904-5	7778-44-1	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19.12.2011	Toxic for reproduction (article 57 c)	ED/77/2011
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13.01.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009

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Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Anthracene oil, anthracene-low	292-604-8	90640-82-7	13.01.2010	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
2,4-Dinitrotoluene	204-450-0	121-14-2	13.01.2010	Carcinogenic (article 57a)	ED/68/2009
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	18.06.2010	Toxic for reproduction (article 57 c)	ED/30/2010
Acrylamide	201-173-7	79-06-1	30.03.2010	Carcinogenic and mutagenic (articles 57 a and 57 b)	ED/68/2009
Cobalt(II) diacetate	200-755-8	71-48-7	15.12.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and pac			19.12.2011	Carcinogenic (article 57 a)	ED/77/2011

Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Lead chromate	231-846-0	7758-97-6	13.01.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13.01.2010	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Anthracene oil	292-602-7	90640-80-5	13.01.2010	Carcinogenic ¹ , PBT and vPvB (articles 57a, 57d and 57e)	ED/68/2009
N,N-dimethylacetamide	204-826-4	127-19-5	19.12.2011	Toxic for reproduction (article 57 c)	ED/77/2011
Arsenic acid	231-901-9	7778-39-4	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	28.10.2008	vPvB (article 57e)	ED/67/2008
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28.10.2008	Carcinogenic (article 57a)	ED/67/2008
Ammonium dichromate	232-143-1	7789-09-5	18.06.2010	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010

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Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18.06.2010	Toxic for reproduction (article 57 c)	ED/30/2010
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	13.01.2010	Toxic for reproduction (article 57c)	ED/68/2009
2-Methoxyethanol	203-713-7	109-86-4	15.12.2010	Toxic for reproduction (article 57c)	ED/95/2010
Lead dipicrate	229-335-2	6477-64-1	19.12.2011	Toxic for reproduction (article 57 c)	ED/77/2011
1,2-dichloroethane	203-458-1	107-06-2	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	28.10.2008	PBT (article 57d)	ED/67/2008
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	20.06.2011	Toxic for reproduction (article 57c)	ED/31/2011
Chromium trioxide	215-607-8	1333-82-0	15.12.2010	Carcinogenic and mutagenic (articles 57 a and 57 b)	ED/95/2010
Cobalt(II) dinitrate	233-402-1	10141-05-6	15.12.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010

Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Trilead diarsenate	222-979-5	3687-31-8	19.12.2011	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/77/2011
Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 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 two following conditions: a) Al ₂ O ₃ and SiO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 43.5 – 47 % w/w, and SiO ₂ : 49.5 – 53.5 % w/w, or Al ₂ O ₃ : 45.5 – 50.5 % w/w, and SiO ₂ : 48.5 – 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	-	Extracted from Index no.: 650-017-00-8	13.01.2010	Carcinogenic (article 57a)	ED/68/2009
Hydrazine	206-114-9	302-01-2, 7803-57-8	20.06.2011	Carcinogenic (article 57a)	ED/31/2011

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Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Strontium chromate	232-142-6	02.06.7789	20.06.2011	Carcinogenic (article 57a)	ED/31/2011
2-Ethoxyethyl acetate	203-839-2	111-15-9	20.06.2011	Toxic for reproduction (article 57c)	ED/31/2011
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28.10.2008	PBT and vPvB (articles 57 d and 57 e)	ED/67/2008
Triethyl arsenate	427-700-2	15606-95-8	28.10.2008	Carcinogenic (article 57a)	ED/67/2008
Dibutyl phthalate (DBP)	201-557-4	84-74-2	28.10.2008	Toxic for reproduction (article 57c)	ED/67/2008
Diarsenic trioxide	215-481-4	1327-53-3	28.10.2008	Carcinogenic (article 57a)	ED/67/2008
Anthracene	204-371-1	120-12-7	28.10.2008	PBT (article 57d)	ED/67/2008
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20.06.2011	Toxic for reproduction (article 57c)	ED/31/2011
Cobalt(II) sulphate	233-334-2	10124-43-3	15.12.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19.12.2011	Equivalent level of concern having probable serious effects to the environment (article 57 f)	ED/77/2011

Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19.12.2011	Toxic for reproduction (article 57 c)	ED/77/2011
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	13.01.2010	Carcinogenic ⁴ , mutagenic ² , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Lead hydrogen arsenate	232-064-2	7784-40-9	28.10.2008	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/67/2008
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28.10.2008	Toxic for reproduction (article 57c)	ED/67/2008
Potassium dichromate	231-906-6	7778-50-9	18.06.2010	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Trichloroethylene	201-167-4	79-01-6	18.06.2010	Carcinogenic (article 57 a)	ED/30/2010

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Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 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 two following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 35 – 36 % w/w, and SiO ₂ : 47.5 – 50 % w/w, and ZrO ₂ : 15 - 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	-	Extracted from Index no. 650-017-00-8	13.01.2010	Carcinogenic (article 57a)	ED/68/2009
Pitch, coal tar, high temp.	266-028-2	65996-93-2	13.01.2010	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)	ED/68/2009
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13.01.2010	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))	ED/68/2009
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/31/2011 / ED/67/2008
Lead diazide, Lead azide	236-542-1	13424-46-9	19.12.2011	Toxic for reproduction (article 57 c),	ED/77/2011

Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Diisobutyl phthalate	201-553-2	84-69-5	13.01.2010	Toxic for reproduction (article 57c)	ED/68/2009
Sodium chromate	231-889-5	7775-11-3	18.06.2010	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Anthracene oil, anthracene paste	292-603-2	90640-81-6	13.01.2010	Carcinogenic ⁺ , mutagenic ⁺ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	28.10.2008	PBT (article 57d)	ED/67/2008
Diarsenic pentaoxide	215-116-9	1303-28-2	28.10.2008	Carcinogenic (article 57a)	ED/67/2008
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	28.10.2008	Toxic for reproduction (article 57c)	ED/67/2008
Potassium chromate	232-140-5	7789-00-6	18.06.2010	Carcinogenic and mutagenic (articles 57 a and 57 b).	ED/30/2010
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	18.06.2010	Toxic for reproduction (article 57 c)	ED/30/2010
2-Ethoxyethanol	203-804-1	110-80-5	15.12.2010	Toxic for reproduction (article 57c)	ED/95/2010

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Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision Number
Lead styphnate	239-290-0	15245-44-0	19.12.2011	Toxic for reproduction (article 57 c)	ED/77/2011
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Phenolphthalein	201-004-7	77-09-8	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011
Dichromium tris(chromate)	246-356-2	24613-89-6	19.12.2011	Carcinogenic (article 57 a)	ED/77/2011