



2 January 2012

RFMD, Inc.
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Subject: EU REACH- Regarding RFMD awareness and acknowledgement of the Registration, Evaluation, Authorization, and Restriction of Chemicals as prescribed in European Regulation EC No. 1907/2006, including Substances of Very High Concern (SVHC) as described in Article 57.

Manufacturer Summary:

RF Micro Devices, Inc. (RFMD[®]) is a global leader in the design and manufacture of high-performance semiconductor components. RFMD's products enable worldwide mobility, provide enhanced connectivity and support advanced functionality in the cellular handset, wireless infrastructure, wireless local area network (WLAN), CATV/broadband and aerospace and defense markets. RFMD is headquartered in Greensboro, NC (USA) with facilities worldwide.

Awareness and Organizational Response to REACH Legislation:

RFMD is aware of this legislation and has made every effort to comply with it.

Pre-registration / Registration:

None required. RFMD produces articles which, by REACH definition, do not require registration. RFMD products do not release chemicals or substances throughout their normal usage conditions.

Substances of Very High Concern (SVHC) List:

The SVHC list is presented below and contains all SVHC as of the December 2011 update per the European Chemicals Agency (ECHA) website. RFMD has data on raw material and component chemical content with CAS numbers, for materials used in RFMD products, which have been provided by RFMD suppliers. None of the SVHC have been detected in this information.

REACH Impact on Availability of RFMD Parts:

RFMD anticipates no negative impacts on the availability of its products as a result of REACH legislation.

Contact and Confirmation:

With anticipated additions to the SVHC list through the year 2020 RFMD has designated a single point contact for your REACH related inquiries, surveys and part specific questions:

RoHS Green Group
Email: RoHSGreenGroup@rfmd.com

Substance Name	CAS No.	Inclusion date	
4,4'- Diaminodiphenylmethane (MDA)	101-77-9	28-Oct-08	
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2		
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8		
Anthracene	120-12-7		
Benzyl butyl phthalate (BBP)	85-68-7		
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7		
Bis(tributyltin)oxide (TBTO)	56-35-9		
Cobalt dichloride	7646-79-9		
Diarsenic pentaoxide	1303-28-2		
Diarsenic trioxide	1327-53-3		
Dibutyl phthalate (DBP)	84-74-2		
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:	25637-99-4 and 3194-55-6		
Alpha-hexabromocyclododecane	134237-50-6		
Beta-hexabromocyclododecane	134237-51-7		
Gamma-hexabromocyclododecane	134237-52-8		
Lead hydrogen arsenate	7784-40-9		
Sodium dichromate	7789-12-0 / 10588-01-9		
Triethyl arsenate	15606-95-8		
2,4-Dinitrotoluene	121-14-2		13-Jan-10
Anthracene oil	90640-80-5		
Anthracene oil, anthracene-low	90640-82-7		
Anthracene oil, anthracene paste	90640-81-6		
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2		
Anthracene oil, anthracene paste, distn. lights	91995-17-4		
Diisobutyl phthalate	84-69-5		
Lead chromate	7758-97-6		
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8		
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2		
Pitch, coal tar, high temp.	-		
Tris(2-chloroethyl)phosphate	115-96-8		

Substance Name	CAS No.	Inclusion date
<p>Aluminosilicate Refractory Ceramic Fibers</p> <p><i>are fibers 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:</i></p> <p><i>a) Al₂O₃ and SiO₂ are present within the following concentration ranges:</i></p> <p style="padding-left: 40px;"><i>Al₂O₃: 43.5 – 47 % w/w, and SiO₂: 49.5 – 53.5 % w/w,</i></p> <p style="padding-left: 40px;"><i>or</i></p> <p style="padding-left: 40px;"><i>Al₂O₃: 45.5 – 50.5 % w/w, and SiO₂: 48.5 – 54 % w/w,</i></p> <p><i>b) fibers have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm).</i></p>	<p>Extracted from Index no.: 650-017-00-8</p>	<p>13-Jan-10</p>
<p>Zirconia Aluminosilicate Refractory Ceramic Fibers</p> <p><i>are fibers 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:</i></p> <p><i>a) Al₂O₃, SiO₂ and ZrO₂ are present within the following concentration ranges:</i></p> <p style="padding-left: 40px;"><i>Al₂O₃: 35 – 36 % w/w, and</i></p> <p style="padding-left: 40px;"><i>SiO₂: 47.5 – 50 % w/w, and</i></p> <p style="padding-left: 40px;"><i>ZrO₂: 15 - 17 % w/w,</i></p> <p><i>b) fibers have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (µm).</i></p>	<p>Extracted from Index no. 650-017-00-8</p>	<p>13-Jan-10</p>
<p>Acrylamide</p>	<p>79-06-1</p>	<p>30-Mar-10</p>

Substance Name	CAS No.	Inclusion date
Trichloroethylene	79-01-6	18-Jun-10
Boric acid	10043-35-3 / 11113-50-1	
Disodium tetraborate, anhydrous	1303-96-4/ 1330-43-4/ 12179-04-3	
Tetraboron disodium heptaoxide, hydrate	12267-73-1	
Potassium dichromate	7778-50-9	
Ammonium dichromate	9/5/7789	
Potassium chromate	7789-00-6	
Sodium chromate	11/3/7775	
Cobalt(II) sulphate	10124-43-3	15-Dec-10
Cobalt(II) dinitrate	10141-05-6	
Cobalt(II) carbonate	513-79-1	
Cobalt(II) diacetate	71-48-7	
2-Methoxyethanol	109-86-4	
2-Ethoxyethanol	110-80-5	
Chromium trioxide	1333-82-0	
Chromic acid	7738-94-5	
Oligomers of chromic acid and dichromic acid,	-	20-Jun-2011
Dichromic acid	13530-68-2	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	
1,2,3-Trichloropropane	96-18-4	
1-Methyl-2-pyrrolidone	872-50-4	
Hydrazine	302-01-2 / 7803-57-8	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	
Strontium chromate	7789-06-2	
2-Ethoxyethyl acetate	111-15-9	

Substance Name	CAS No.	Inclusion date
Calcium arsenate	7778-44-1	19-Dec-2011
Bis(2-methoxyethyl) ether	111-96-6	
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	
Lead dipicrate	6477-64-1	
N,N-dimethylacetamide	127-19-5	
Arsenic acid	7778-39-4	
2-Methoxyaniline; o-Anisidine	90-04-0	
Trilead diarsenate	3687-31-8	
1,2-dichloroethane	107-06-2	
Pentazinc chromate octahydroxide	49663-84-5	
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	
Bis(2-methoxyethyl) phthalate	117-82-8	
Lead diazide, Lead azide	13424-46-9	
Lead styphnate	15245-44-0	
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	
Phenolphthalein	77-09-8	
Dichromium tris(chromate)	24613-89-6	
Zirconia Aluminosilicate Refractory Ceramic Fibers are fibers 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, labeling and packaging of substances and mixtures, and fulfill the three following conditions: a) oxides of aluminum, silicon and zirconium are the main components present (in the fibers) within variable concentration ranges b) fibers have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (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-Dec-2011 (Originally 13-Jan-2010)
Aluminosilicate Refractory Ceramic Fibers are fibers 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, labeling and packaging of substances and mixtures, and fulfill the three following conditions: a) oxides of aluminum and silicon are the main components present (in the fibers) within variable concentration ranges b) fibers have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (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		