

# SAFE GUARDS

SGS CONSUMER TESTING SERVICES

SOFTLINES

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## REACH 38 SVHCs: POSSIBLE USE IN THE TEXTILE AND FOOTWEAR INDUSTRIES

The Member State Committee, European Chemical Agency (ECHA) has announced the addition of 8 SVHCs (Substances of Very High Concern) to the existing Candidate List of 30 SVHCs, bringing the Candidate List to a total 38 SVHCs. The addition is effective from 18 June 2010.<sup>1</sup>

Producers, importers and other suppliers of articles containing SVHC included in the Candidate List in a concentration above 0.1% (w/w) have to provide information about the SVHC to the recipients of the articles. According to Article 33, the information can be automatically provided, or it must be available upon request by consumers, free of charge and within 45 days.

As of 1 June 2011, producers, importers and other suppliers will be required to notify the ECHA when a SVHC in the Candidate List is present in articles above a concentration of 0.1% (w/w) and in an amount totaling over 1 tonne per year per producer or importer.

Obligation	Legal basis	Condition	Exemption
Communication of SVHC in articles	Article 33	<ul style="list-style-type: none"><li>SVHC &gt; 0.1% w/w in article</li></ul>	No
Notification of SVHC in articles (Starting from 1 June 2011)	Article 7(2)	<ul style="list-style-type: none"><li>SVHC &gt; 0.1% w/w in article; AND</li><li>SVHC &gt; 1 tonne per year per importer or producer</li></ul>	<ul style="list-style-type: none"><li>substance already registered for that use; or</li><li>exposure can be excluded</li></ul>

A recent European Commission report discloses different levels of penalties that may be imposed by EU Member States for infringements of REACH provisions<sup>2</sup>. Producers and importers are therefore highly recommended to take action immediately to ensure their products are REACH compliant.

The possible uses of the 38 SVHCs in the Candidate List in the textile and footwear industries are listed in the following tables.<sup>3</sup>

<sup>1</sup> [Official Press Release, SafeGuardS 109/10](#)

<sup>2</sup> (a) [European Commission Reach Enforcement](#); (b) [SafeGuards 098/10](#)

<sup>3</sup> [List of current Candidate List](#)

The logo for SGS, consisting of the letters 'SGS' in a bold, sans-serif font, with a vertical line to the right of the letters and a horizontal line below the letters.

## Candidate List – 15 SVHCs adopted on 28 October 2008

Substance Name	EC No. (CAS No.)	Classification	Possible Applications in Textile and Footwear Industries	Chemical Category
Benzyl butyl phthalate (BBP)	201-622-7 (85-68-7)	R, Cat. 2	<ul style="list-style-type: none"> <li>Plasticizer for Polyvinyl chloride, vinyl chloride copolymer, synthetic rubber</li> <li>Manufacture of thin film</li> <li>Used in synthetic leather</li> </ul>	Phthalates
Bis (2-ethylhexyl) phthalate (DEHP)	204-211-0 (117-81-7)	R, Cat. 2		
Dibutyl phthalate (DBP)	201-557-4 (84-74-2)	R, Cat. 2		
4,4'-Diaminodiphenylmethane (MDA)	202-974-4 (101-77-9)	C, Cat. 2	<ul style="list-style-type: none"> <li>Raw materials in the production of azo dyes</li> <li>Cross-linking agents for polyurethane rubber and other synthetic rubber</li> </ul>	Aromatic amines
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4 (81-15-2)	vPvB	<ul style="list-style-type: none"> <li>Artificial musk</li> </ul>	Fragrances
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5 (85535-84-8)	PBT vPvB	<ul style="list-style-type: none"> <li>Substitute of major plasticizers</li> <li>Flame retarding ability</li> </ul>	SCCPs
Cobalt Dichloride	231-589-4 (7646-79-9)	C, Cat. 2	<ul style="list-style-type: none"> <li>Indicator in silica gel desiccant</li> </ul>	Indicators
Hexabromocyclododecane (HBCDD)	247-148-4 and 221-695-9 (134237-50-6) (134237-51-7) (134237-52-8)	PBT	<ul style="list-style-type: none"> <li>Flame retardant in polyester, acrylic and polypropylene</li> <li>Used in polyurethane and polystyrene foam</li> </ul>	Flame retardants
Sodium dichromate	234-190-3 (7789-12-0 and 10588-01-9)	C, Cat. 2 M, Cat. 2 R, Cat. 2	<ul style="list-style-type: none"> <li>Oxidizing agent in sulphur dyeing process</li> <li>Mordant agent in mordant dyeing</li> </ul>	Chromium compounds
Bis(tributyltin) oxide (TBTO)	200-268-0 (56-35-9)	PBT	<ul style="list-style-type: none"> <li>Biocides in agriculture</li> <li>Preservative in manufacture of textiles and paint</li> <li>Catalyst in polymerization</li> </ul>	Biocides
Diarsenic pentoxide	215-116-9 (1303-28-2)	C, Cat. 1	<ul style="list-style-type: none"> <li>Manufacture of pesticides, dyes and prints</li> <li>Metal alloy and metallurgical industries</li> </ul>	
Diarsenic trioxide	215-481-4 (1327-53-3)	C, Cat. 1	<ul style="list-style-type: none"> <li>Preparation of arsenic containing pesticides, herbicides and leather preservatives</li> </ul>	
Triethyl arsenate	427-700-2 (15606-95-8)	C, Cat. 1	<ul style="list-style-type: none"> <li>Preservatives in wood and textiles</li> </ul>	
Anthracene	204-371-1 (120-12-7)	PBT	<ul style="list-style-type: none"> <li>Manufacture of dyeing intermediates Anthraquinone and tannin</li> <li>Insecticides, fungicides, gasoline anticoagulation agent</li> </ul>	PAHs
Lead hydrogen arsenate	232-064-2 (7784-40-9)	C, Cat. 1 R, Cat. 1	<ul style="list-style-type: none"> <li>Wood preservatives &amp; pesticides (phased out)</li> <li>Not commonly applied in Textile and Footwear Industries</li> </ul>	Lead compounds

## Candidate List – 15 SVHCs adopted on 13 January 2010; revised on 30 March 2010

Substance Name	EC No. (CAS No.)	Classification	Possible Applications in Textile and Footwear Industries	Chemical Category
2,4-Dinitrotoluene	204-450-0 (121-14-2)	C, Cat. 2	<ul style="list-style-type: none"> <li>• Manufacture of azo dyes and PU foam</li> <li>• Intermediates in the manufacture of dyestuffs</li> </ul>	Organic intermediates
Anthracene oil	292-602-7 (90640-80-5)	PBT vPvB C, Cat. 2	<ul style="list-style-type: none"> <li>• Manufacture of tanning agent intermediate</li> <li>• Used in the manufacture of Anthraquinone which is an important intermediate of dyes and pigments</li> <li>• Used as insecticides and wood preservatives</li> </ul>	PAHs
Anthracene oil, anthracene paste, distn, lights	295-278-5 (91995-17-4)	PBT vPvB C, Cat. 2		
Anthracene oil, anthracene paste, anthracene fraction	295-275-9 (91995-15-2)	M, Cat. 2		
Anthracene oil, anthracene-low	292-604-8 (90640-82-7)			
Anthracene oil, anthracene paste	292-603-2 (90640-81-6)			
Diisobutyl phthalate (DIBP)	201-553-2 (84-69-5)	R, Cat. 2	<ul style="list-style-type: none"> <li>• Plasticizer for PVC, nitrocellulose, cellulose ether, polyacrylate and polyacetate dispersion</li> <li>• Used in adhesives, binding agents, softeners and viscosity adjusters</li> </ul>	Phthalates
Aluminosilicate, Refractory Ceramic Fibres	Index No.: 650-017-00-8	C, Cat. 2	<ul style="list-style-type: none"> <li>• Materials for Personal Protective Equipments (PPE) such as heat and fire-protective clothing</li> <li>• Applied in carpet backing, theater safety curtains, fiber blankets, fiber paper for high-temperature gaskets and seals</li> </ul>	Inorganic & mineral fibers
Zirconia Aluminosilicate, Refractory Ceramic Fibres		C, Cat. 2		
Lead chromate	231-846-0 (7758-97-6)	C, Cat. 2 R, Cat. 1	<ul style="list-style-type: none"> <li>• Manufacture of pigments and dyes</li> </ul>	Lead compounds
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	235-759-9 (12656-85-8)	C, Cat. 2 R, Cat. 1	<ul style="list-style-type: none"> <li>• Manufacture of paint and printing inks</li> <li>• Used in plastic, rubber, paper, textile printing and leather finishing</li> </ul>	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7 (1344-37-2)	C, Cat. 2 R, Cat. 1		
Tris(2-chloroethyl)phosphate	204-118-5 (115-96-8)	R, Cat. 2	<ul style="list-style-type: none"> <li>• Used as flame retardant and plasticizer</li> <li>• Used in polyurethane and polyisocyanurate foams, unsaturated polyester resins, PVC, adhesives, elastomers, cellulose acetate, nitrocellulose, epoxy resins and others</li> </ul>	Flame retardants / Plasticizers
Coal tar pitch, high temperature	266-028-2 (65996-93-2)	PBT vPvB C, Cat. 2	<ul style="list-style-type: none"> <li>• Raw material of dyestuff synthesis</li> <li>• Preservative in wood</li> </ul>	PAHs
Acrylamide	201-173-7 (79-06-1)	C, Cat. 2 M, Cat. 2	<ul style="list-style-type: none"> <li>• Manufacture of polyacrylamides and dyestuffs</li> <li>• Used as textile auxiliaries such as hardness agent and dyeing-fix agent, etc.</li> </ul>	Monomer

## Candidate List – 8 SVHCs adopted on 18 June 2010

Substance Name	EC No. (CAS No.)	Classification	Possible Applications in Textile and Footwear Industries	Chemical Category
Trichloroethylene	201-167-4 (79-01-6)	C, Cat. 2	<ul style="list-style-type: none"> <li>• Cleaning and degreasing agent for metal parts</li> <li>• Solvent carrier for textile desizing sourcing and leather preparation</li> <li>• Used in wool scouring process</li> <li>• Solvent in adhesives</li> </ul>	Organic compounds
Boric acid	233-139-2 and 234-343-4 (10043-35-3 and 11113-50-1)	R, Cat. 2	<ul style="list-style-type: none"> <li>• Biocides and preservatives</li> <li>• Manufacturing of rubber</li> <li>• Flame retardants</li> <li>• Paints</li> <li>• Auxiliaries used in leather tanning</li> </ul>	Boron compounds
Disodium tetraborate, anhydrous	215-540-4 (1330-43-4, 12179-04-3 and 1303-96-4)	R, Cat. 2	<ul style="list-style-type: none"> <li>• Uses as adhesives</li> <li>• Flame retardants</li> <li>• Biocides</li> <li>• Auxiliaries used in leather tanning</li> </ul>	
Tetraboron disodium heptaoxide, hydrate	235-541-3 (12267-73-1)	R, Cat. 2		
Sodium chromate	231-889-5 (7775-11-3)	C, Cat. 2 M, Cat. 2 R, Cat. 2	<ul style="list-style-type: none"> <li>• Manufacture of other chromium compounds</li> <li>• Leather tanning</li> <li>• Mordant for dyes</li> </ul>	Chromium compounds
Potassium chromate	232-140-5 (7789-00-6)	C, Cat. 2 M, Cat. 2	<ul style="list-style-type: none"> <li>• Treatment and coating of metals</li> <li>• Manufacture of textiles</li> <li>• Tanning and dressing of leather</li> <li>• Manufacture of pigments/inks</li> </ul>	
Ammonium dichromate	232-143-1 (7789-09-5)	C, Cat. 2 M, Cat. 2 R, Cat. 2	<ul style="list-style-type: none"> <li>• Tanning of leather</li> <li>• Textiles mordant</li> </ul>	
Potassium dichromate	231-906-6 (7778-50-9)	C, Cat. 2 M, Cat. 2 R, Cat. 2	<ul style="list-style-type: none"> <li>• Treatment and coating of metals</li> <li>• Tanning of leather</li> <li>• Textiles mordant</li> </ul>	

**Abbreviations**

C = carcinogenic; M = mutagenic; R = toxic for reproduction;  
PBT = persistent, bioaccumulative and toxic substances;  
vPvB = very persistent and very bioaccumulative substances;  
Cat. = Category; PAHs = polycyclic aromatic hydrocarbons;  
SCCP = short chain chlorinated paraffins

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**FOR ENQUIRIES:**

Global Competences Support Centre: [gcsc@sgs.com](mailto:gcsc@sgs.com)  
HK Ruth Hon Tel: ++852 2774 7148 or [Ruth.Hon@sgs.com](mailto:Ruth.Hon@sgs.com)

Asia – Hong Kong. Tel: +852 2334 4481 Fax: +852 2144 7001 [mktg.hk@sgs.com](mailto:mktg.hk@sgs.com)  
Australasia – Perth. Tel: +61 (0) 3 9790 3418 Fax: +61 (0) 3 9701 0988 [au.cts@sgs.com](mailto:au.cts@sgs.com)  
Europe – London – UK. Tel: +44(0) 20 8991 3410 Fax: +44 (0) 20 8991 3417 [gb.cts.sales@sgs.com](mailto:gb.cts.sales@sgs.com)  
Africa & Middle East – Turkey. Tel: +90 212 368 40 00 Fax: +90 212 296 47 82 [sgs.turkey@sgs.com](mailto:sgs.turkey@sgs.com)  
Americas – USA. Tel: +1 973 575 5252 Fax: +1 973 575 1193 [uscts.inquiries@sgs.com](mailto:uscts.inquiries@sgs.com)

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