

SLOVENSKI STANDARD kSIST-TP FprCEN/TR 16417:2014

01-november-2014

Obutev – Smernica, namenjena obutveni industriji, o snoveh, ki zelo zbujajo skrb (Priloga XIV iz REACH)

Footwear - Footwear industry guideline for substances of very high concern (Annex XIV of REACH)

Schuhe - Leitfaden für die Schuhindustrie für sehr bedenkliche Substanzen (Anhang XIV von REACH)

Chaussures - Lignes directrice de l'industrie de la chaussure concernant les substances extrêmement préoccupantes (annexe XIV de REACH)

Ta slovenski standard je istoveten z: FprCEN/TR 16417

ICS:

61.060

Obuvala

Footwear

kSIST-TP FprCEN/TR 16417:2014 en,fr,de

kSIST-TP FprCEN/TR 16417:2014

TECHNICAL REPORT RAPPORT TECHNIQUE TECHNISCHER BERICHT

FINAL DRAFT FprCEN/TR 16417

September 2014

ICS 61.060

Will supersede CEN/TR 16417:2012

English Version

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This draft Technical Report is submitted to CEN members for Technical Committee Approval. It has been drawn up by the Technical Committee CEN/TC 309.

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Ref. No. FprCEN/TR 16417:2014 E

kSIST-TP FprCEN/TR 16417:2014

FprCEN/TR 16417:2014 (E)

Contents

Forewo	ord	3
1	Scope	4
2	Terms and definitions	5
3 3.1	SVHC potentially present in the footwear industry General	
3.2 3.3	SVHC included in Annex XIV of REACH SVHC included in the candidate list of Annex XIV of REACH	6
Annex	A (informative) Available test methods for the identification of the substances of very high concern given in the future REACH- Annex XIV	
Bibliog	graphy	. 41

Foreword

This document (FprCEN/TR 16417:2014) has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR.

This document is currently submitted to the Technical Committee Approval.

This document will supersede CEN/TR 16417:2012.

1 Scope

This Technical Report is intended to provide information on the chemicals listed in the Candidate List / Annex XIV of the Regulation (EC) 1907/2006, also known as REACH (Regulation, Evaluation and Authorisation of Chemicals) and their usage and presence in the footwear industry.

The Annex XIV, overseen by the ECHA (European Chemicals Agency), is a list of substances subject to authorization, substances of very high concern (SVHC). Before the inclusion of a substance in the Annex XIV, the procedure is strictly fixed :

A European member state shall propose it to ECHA.

ECHA inform all the members' state and a first enquiry is done in order to include the substance to the candidate list of Annex XIV.

After the agreement of the member's state, ECHA includes the substances in the candidate list to Annex XIV. As soon as a substance has been included in the candidate list, it should be taken into account exactly as a SVHC.

ECHA prioritizes the substances from the Candidate List to determine which ones should be included in the Authorisation List (Annex XIV of REACH) and therefore, subject to authorization. ECHA regularly submits recommendations to the European Commission, who will decide on the substances to be included in the Authorisation List.

Following the evaluation of the Annex XIV substances, ECHA can take the decision to restrict the substances. This restriction may take the form of an authorization for use, an authorization only for specific applications in specified fields or, in some cases, a complete ban on the use of the substance.

During the evaluation process, these chemicals are not forbidden or limited in use. The regulation requires that the user shall be informed if one or more of these substances are present in any part of the Article in quantity over 0,1% by weight.

This Technical Report shows which of these chemicals may be present in footwear materials and the footwear industry in order to help shoe manufacturers to collect mandatory information from suppliers regarding the content of these chemicals and, at same time, allow them to provide accurate information to their customers.

The test methods reported in Annex A are informative only to identify where these chemicals may be found and control the use along the supply chain where their suppliers are not under the jurisdiction of the REACH Regulation.

Taking into account final decision of the European Commission, ECHA, implements the Annex XIV and the candidate list to Annex XIV of REACH, regularly. This revision interval is difficult to follow by the standardization procedures.

Therefore, this document reflects the situation at the date of <u>June 2013</u>. This document will be annually revised.

This Technical Report does not concern the substances for which restriction have been already enacted under Annex XVII of REACH.

NOTE Chemicals that are restricted under Annex XVII, are identified as a category 1 chemical in CEN ISO/TR 16178.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

Very Persistent and Very Bioaccumulative substance

vPvB substance that fulfils the criteria of both the sections below:

- a) Persistence
 - 1) the half-life in marine, fresh- or estuarine water is higher than 60 d, or
 - 2) the half-life in marine, fresh- or estuarine water sediment is higher than 180 d, or
 - 3) the half-life in soil is higher than 180
- b) Bioaccumulation
 - 1) the bioconcentration factor is greater than 5 000

2.2

Persistent, Bioaccumulative and Toxic substance PBT

substance that fulfils all three of the criteria of the sections below:

- a) Persistence
 - 1) the half-life in marine water is higher than 60 d, or
 - 2) the half-life in fresh- or estuarine water is higher than 40 d, or
 - 3) the half-life in marine sediment is higher than 180 d, or
 - 4) the half-life in fresh- or estuarine water sediment is higher than 120 d, or
 - 5) the half-life in soil is higher than 120 d

b) Bioaccumulation

- 1) the bioconcentration factor (BCF) is higher than 2 000
- c) Toxicity
 - 1) the long-term no-observed effect concentration (Noec) for marine or freshwater organisms is less than 0,01 mg/l, or
 - 2) the substance is classified as carcinogenic (category 1 or 2), mutagenic (category 1 or 2) or toxic for reproduction (category 1, 2, or 3), or
 - there is other evidence of chronic toxicity, as identified by the classifications: T, R48, or Xn, R48 according to Directive 67/548/EEC

3 SVHC potentially present in the footwear industry

3.1 General

The following subclauses contain tables with the substances of very high concern (SVHC) that could be found in the footwear or in the footwear components.

3.2 SVHC included in Annex XIV of REACH

Table 1 includes the substances of very high concern included, at the moment of publication of this Technical Report, in Annex XIV of REACH (see Regulation (EU) N°348/2013 17th April 2013).

	F	Regulation	(EU) N°348	/2013 17 th April 2013		
	Substance name	CAS number	EC number	Group	Reason for inclusion	Occurrence in Footwear
1.1	5-tert-butyl-2,4,6-trinitro- m-xylene (musk xylene)	81-15-2	201-329- 4		vPvB (Article 57e)	Not used in footwear or footwear components
						Not used as a free compound
						This substance can be detected after the degradation of:
1.2	4,4'- Diaminodiphenylmethane	101-77-9	202-974- 4	Aryl amine	Carcinogenic (Article 57a)	azo colorant, see Annex XVII of Reach)
						PU material, (false positive result is possible, generated as a marker in testing of PU material)
1.3	Hexabromocyclododecane (HBCDD) and all major diastereoisomers	25637- 99-4 and 3194-55- 6 (134237-	247-148- 4 and		PBT (Article	Not used in footwear or footwear components
1.3	identified (α – HBCDD, β-HBCDD, γ-HBCDD)	51-7, 134237- 50-6, 134237-	221-695- 9		57d)	(flame retardant for electronics)

134237-52-8)

Table 1 — Identification of substances of very high concern included in Annex XIV of REACH — Regulation (EU) N°348/2013 17th April 2013

	Substance name	CAS number	EC number	Group	Reason for inclusion	Occurrence in Footwear
1.4 ^a	Bis (2- ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211- 0	phthalate	Toxic for reproduction (Article 57c)	Possible (concentration higher than 0,1% possible)
1.5 ª	Benzyl butyl phthalate (BBP)	85-68-7	201-622- 7	phthalate	Toxic for reproduction (Article 57c)	Possible (concentration higher than 0,1% possible)
1.6 ^a	Dibutyl phthalate (DBP)	84-74-2	201-557- 4	phthalate	Toxic for reproduction (Article 57c)	Possible (concentration higher than 0,1% possible)
1.7	2,4 – Dinitrotoluene (2,4- DNT)	121-14-2	204-450- 0	Aromatic hydrocarbons	Carcinogenic (Article 57a)	Not used in footwear or footwear components
1.8	Tris(2- chloroethyl)phosphate (TCEP)	115-96-8	204-118- 5	Tris(2- chloroethyl)phosphate (TCEP)	Toxic for reproduction (Article 57c)	Not used in footwear or footwear components (flame retardant for furniture, plasticizer for PU-PVC)
1.9	Diarsenic pentaoxide	1303-28- 2	215-116- 9	Arsenic compounds	Carcinogenic (Article 57a)	Not used in footwear or footwear components
1.10 ^a	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37- 2	215-693- 7	Substances containing lead	Carcinogenic and toxic for reproduction (Articles 57 a and 57 c)	possible pigment in certain surface coating
1.11 ^a	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656- 85-8	235-759- 9	Substances containing lead	Carcinogenic and toxic for reproduction (Articles 57 a and 57 c)	possible pigment in certain surface coating
1.12	Diarsenic trioxide	1327-53- 3	215-481- 4	Arsenic compounds	Carcinogenic (Article 57a)	Not used in footwear or footwear components
1.13 ^ª	Lead chromate	7758-97- 6	231-846- 0	Substances containing chromate	Carcinogenic and toxic for reproduction	possible pigment in certain

	Substance name	CAS number	EC number	Group	Reason for inclusion	Occurrence in Footwear
					(Articles 57 a and 57 c)	surface coating
1.14 ^a	Diisobutyl phthalate (DIBP)	84-69-5	201-553- 2	phthalate	Toxic for reproduction (Article 57c)	Possible (concentration higher than 0,1% possible)
1.15	Trichloroethylene	79-01-6	201-167- 4	Chlorinated aliphates	Carcinogenic (Article 57 a)	Solvent used in not flammable adhesive, volatile product can be present only as a residue.
						More possible to detect in the packaging of footwear than in the footwear itself
1.16	Chromium trioxide	1333-82- 0	215-607- 8	Substances containing chromium	Carcinogenic and mutagenic (Articles 57a and 57b)	Not used in footwear or footwear components (Cr VI possible in leather at low concentration)
1.17	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94- 5, 13530- 68-2, not yet assigned	231-801- 5, 236- 881-5, not yet assigned	Substances containing chromium	Carcinogenic (Article 57a)	Not used in footwear or footwear components (Cr VI possible in leather at low concentration)
1.18	Sodium dichromate	7789-12- 0 and 10588- 01-9	234-190- 3	Substances containing chromate	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b and 57c)	Not used in footwear or footwear components (Cr VI possible in leather at low concentration)
1.19	Potassium dichromate	7778-50- 9	231-906- 6	Substances containing chromate	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b	Not used in footwear or footwear components (Cr VI possible in

	Substance name	CAS number	EC number	Group	Reason for inclusion	Occurrence in Footwear
					and 57c)	leather at low concentration)
1.20	Ammonium dichromate	7789-09- 5	232-143- 1	Substances containing chromate	Carcinogenic, mutagenic and toxic for reproduction (Articles 57a, 57b and 57c)	Not used in footwear or components (Cr VI possible in leather at low concentration)
1.21	Potassium chromate	7789-00- 6	232-140- 5	Substances containing chromate	Carcinogenic and mutagenic (Articles 57a and 57b).	Not used in footwear or footwear components (Cr VI possible in leather at low concentration)
1.22	Sodium chromate	7775-11- 3	231-889- 5	Substances containing chromate	Carcinogenic, mutagenic and toxic for reproduction (Articles 57 a, 57 b and 57 c)	Not used in footwear or footwear components (Cr VI possible in leather at low concentration)

3.3 SVHC included in the candidate list of Annex XIV of REACH

The following tables include the substances of very high concern included, at the moment of publication of this technical report, in the candidate list of Annex XIV of REACH. Different tables have been drafted to identify the date of inclusion in the candidate list.

Table 2 — Identification of substances of very high concern included in the candidate list for
Annex XIV of REACH — Date of inclusion 28 th October 2008

ID	Substance name	CAS Number	EC Number	Group	Reason for inclusion	Occurrence in Footwear
2.1	Bis(tributyltin) oxide (TBTO)	56-35-9	200-268-0	Substances containing tin	PBT (Article 57d)	Not used in footwear or footwear components
						Use in the pass as a preservative agent
2.2 ^a	Anthracene	120-12-7	204-371-1	PAHs	PBT (Article 57d)	PAH compound
						Possible contaminant (recycled materials or leather fat liquor)
2.3	Lead hydrogen arsenate	7784-40-9	232-064-2	Arsenic compounds	Carcinogenic and toxic for reproduction (Articles 57 a and 57 c)	Not used in footwear or footwear components
2.4	Triethyl arsenate	15606-95- 8	427-700-2	Arsenic compounds	Carcinogenic (Article 57a)	Not used in footwear or footwear components
2.8 ^a	Alkanes, C10- 13,chloro [Short Chain Chlorinated paraffins] (SCCP)	8	287-476-5	Chlorinated aliphates	PBT and vPvB (Articles 57 d and 57 e)	Possible
						(flame retardant for textile or fat liquor for leather)