





## Chemical Compliance 2.0

Introduction Chemical Compliance – State of States FDRA – QTRLY Chemical Test Report Chemical Compliance – Global Overview TÜV SÜD : Chemical Risk Management



Mr. Ben DeVito



Ben DeVito has been with TÜV SÜD since July of 2012 and is the Global Technical Director for the CPS Division. His responsibilities include Technical and Sales Support to TÜV SÜD constituents in matters of Testing, Inspections and Audits. In addition, he currently serves in various leadership roles in industry committees including the AATCC, AAFA, FDRA and IFIA.

Ben spent 6 years in the United States Coast Guard before entering the private sector. For the past 30 years Ben has held positions of increasing responsibility at Sara Lee Apparel, Charming Shoppes, UL and TUV SUD. This includes leadership roles in Product Engineering, Product Development, Finance, Production, Sourcing and Quality.

Ben has a depth of experience in supply chain management and is frequent speaker at industry events.

Mr. DeVito is a graduate of the United States Coast Guard Academy and has an MBA from Baldwin-Wallace University.

# TÜV SÜD at a glance







**€2.4**BILLION
IN ANNUAL

**REVENUE** 







**574,000**CERTIFICATES



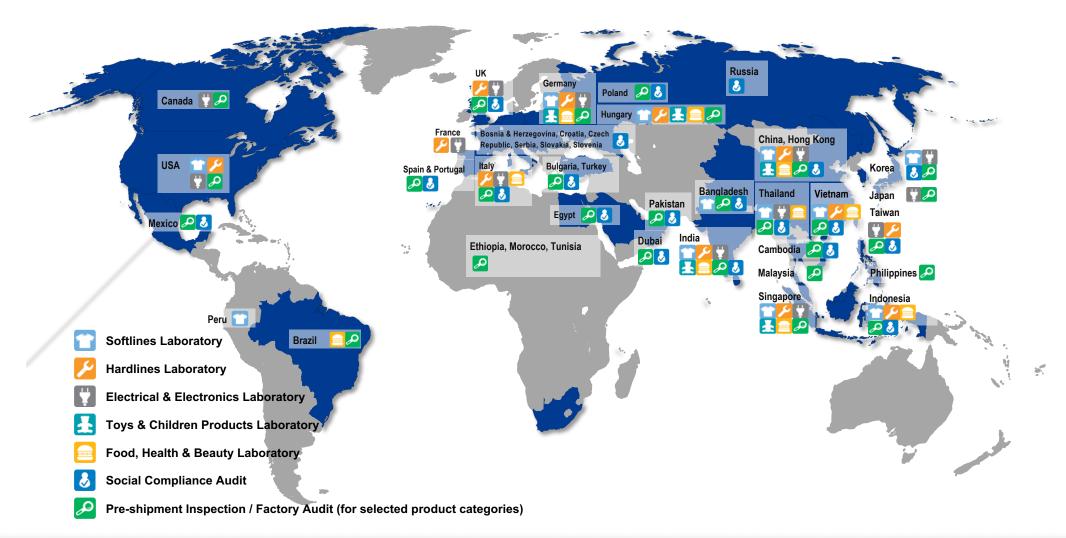


\*As of 2017-12-31

^Based on clients' locations

Note: Figures have been rounded off.

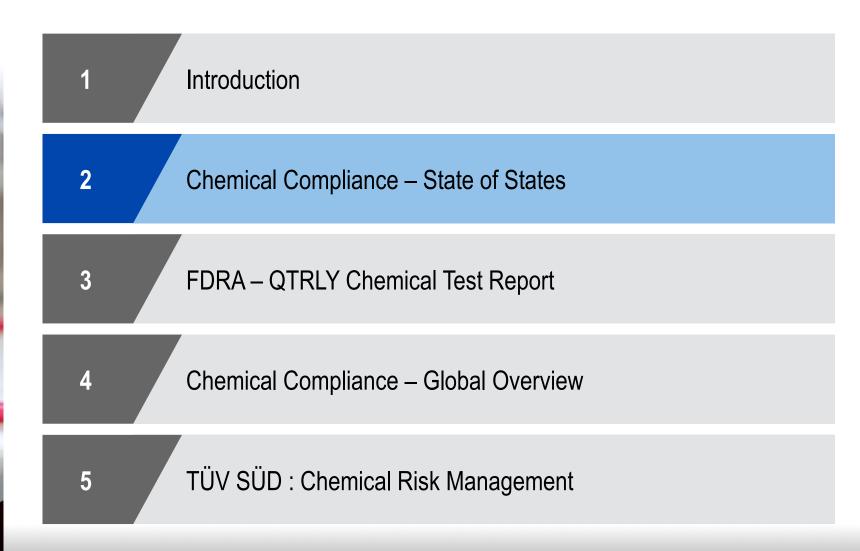
### Our expertise worldwide



Many countries like China, India, Germany have multiple locations for testing, inspection & audit

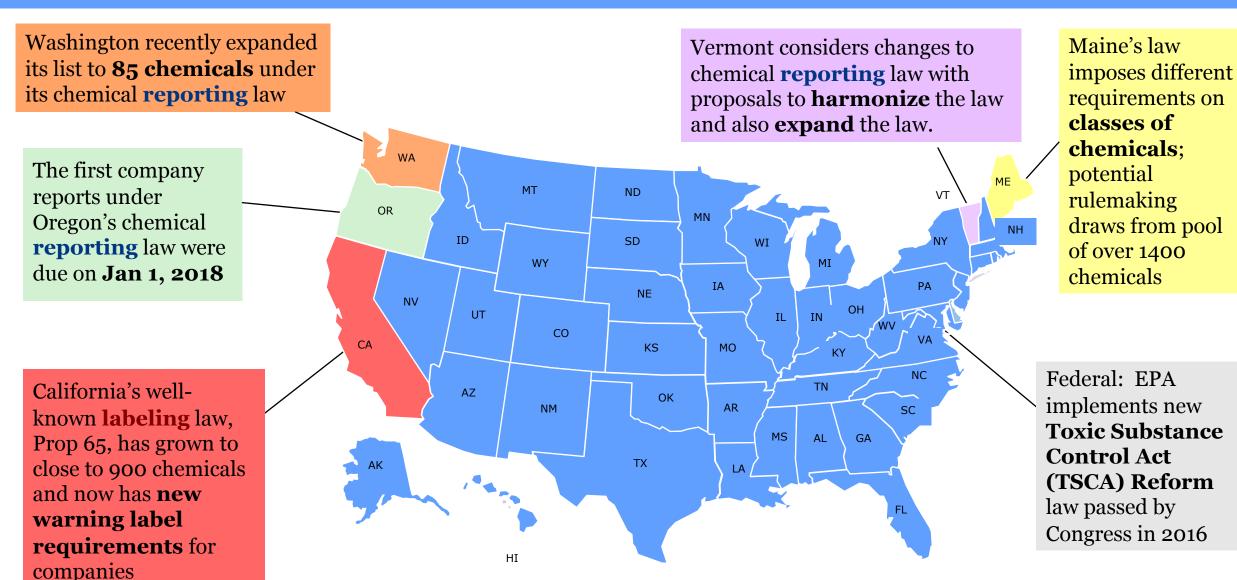














WARNING: This product can expose you to chemicals including formaldehyde which is known to the State of California to cause cancer. For more information go to: <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.



#### FDRA Prop 65 Tracking: Footwear Notices

Date	Plaintiff Alleged Violator(s)		Source Chemical(s)		AG No.
8/29/18	9/18 Consumer Advocacy Group, Inc.  Ross Stores, Inc. dba dd's Discounts; Ross Stores, Inc. dba Ross Dress for Less, Inc.; Ross Dress for Less, Inc.; Elegance Enterprise Corporation		Plastic Sandals	Di(2-ethylhexyl)phthalate (DEHP) Di-n-butyl phthalate (DBP)	2018-01643
8/29/18	Group, Inc.  Consumer Advocacy Group, Inc.  Consumer Advocacy Group, Inc.  Consumer Advocacy Dollar King Burbank; Dollar Kings, Inc.; Dollar Page Page Page Page Page Page Page Page		Flip Flops With Polymer Components	Di-n-butyl phthalate (DBP)	2018-01628
8/22/18			Flip Flops with Plastic Straps	Di-n-butyl phthalate (DBP)	2018-01535
8/22/18 Consumer Advocacy GMI Group, Inc. dba Craz		GMI Group, Inc. dba Crazy Q Bargain	Flip Flops With Polymer Components	Di-n-butyl phthalate (DBP)	2018-01512
8/22/18	22/18 SHEFA LMV, INC Dean Street Group LLC		Stock # 21345; 653-12/2016 Floral Print Flip Flops; UPC: 847312051579	Di-n-butyl phthalate (DBP)	2018-01502
8/17/18	Consumer Advocacy Group, Inc.	Vernon Bargain Center; Daiso California LLC; Daiso Holdings USA Inc.; Vernon Bargain Inc.; Daiso Holdings USA Inc.; Daiso Industries Co., Ltd; Viva Bargain Center Inc.	Flip Flops with Polyvinyl Chloride	Di-n-butyl phthalate (DBP)	2018-01451
8/17/18	Consumer Advocacy Group, Inc.	Viva Bargain Center; Viva Bargain Center, Inc.	Plastic Sandals	Di(2-ethylhexyl)phthalate (DEHP)	2018-01446
8/15/18	5/18 Consumer Advocacy General Discount #5; General Discount Corporation		Children's Flip Flops with Plastic Components	Di(2-ethylhexyl)phthalate (DEHP)	2018-01417



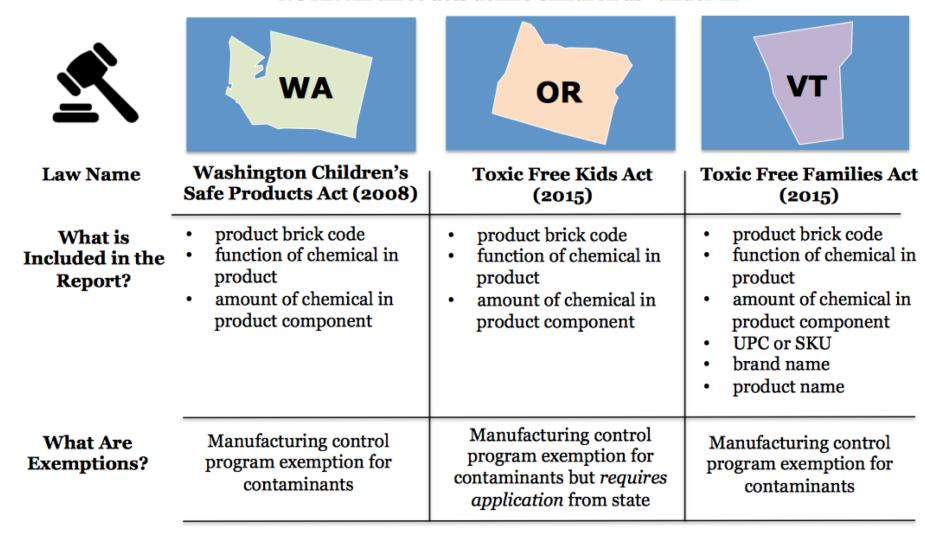
NOTE: All three acts define Children as "under 12"

<u> </u>	WA	OR	VT
Law Name	Washington Children's Safe Products Act (2008)	Toxic Free Kids Act (2015)	Toxic Free Families Act (2014)
What is Required?	Report if CHCC* intentionally added above the practical quantitation limit (PQL) OR above 100 ppm if contaminants	Same as WA and VT but phase-out or alternative assessment if CHCC reported in 3 cycles	Report if CHCC* intentionally added above the practical quantitation limit (PQL) OR above 100 ppm if contaminants
How Often Do You Report?	Annually	Every Two Years	Every Two Years (unless CHCC in new product)
When is Next Report Due?	January 31, 2019	January 1, 2018	Cycle One: Jan. 2017 Cycle Two: Aug. 2018 Then Every Two Years
What Are Fees?	There is no fee	\$250 fee per chemical; \$10,000 for manufacturing control program waiver	\$200 fee per chemical; Maximum \$13,200 if all 66 chemicals reported

<sup>\*</sup> CHCC: Chemical of High Concern to Children

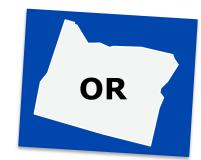


#### NOTE: All three acts define Children as "under 12"











50-00-0         Formaldehyde         WA, OR, VT           62-53-3         Aniline         WA, OR, VT           62-75-9         N-Nitrosodimethylamine         WA, OR, VT           71-43-2         Benzene         WA, OR, VT           75-01-4         Vinyl chloride         WA, OR, VT           75-07-0         Acetaldehyde         WA, OR, VT           75-09-2         Methylene chloride         WA, OR, VT           78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (Nev           84-61-7         Dicyclohexyl phthalate         WA, OR, VT           84-69-5         Diisobutyl phthalate         WA, OR, VT           84-74-2         Di-n-butyl phthalate         WA, OR, VT           84-75-3         Di-n-hexyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
62-75-9         N-Nitrosodimethylamine         WA, OR, VT           71-43-2         Benzene         WA, OR, VT           75-01-4         Vinyl chloride         WA, OR, VT           75-07-0         Acetaldehyde         WA, OR, VT           75-09-2         Methylene chloride         WA, OR, VT           75-15-0         Carbon disulfide         WA, OR, VT           78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (New           84-61-7         Dicyclohexyl phthalate         WA only (New           84-66-2         Diethyl phthalate         WA, OR, VT           84-75-3         Di-n-betyl phthalate         WA, OR, VT           84-75-3         Di-n-hexyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
71-43-2         Benzene         WA, OR, VT           75-01-4         Vinyl chloride         WA, OR, VT           75-07-0         Acetaldehyde         WA, OR, VT           75-09-2         Methylene chloride         WA, OR, VT           75-15-0         Carbon disulfide         WA, OR, VT           78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (New           84-61-7         Dicyclohexyl phthalate         WA, OR, VT           84-66-2         Diethyl phthalate         WA, OR, VT           84-69-5         Diisobutyl phthalate         WA, OR, VT           84-75-3         Di-n-butyl phthalate         WA, OR, VT           84-75-3         Di-n-butyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
75-01-4 Vinyl chloride WA, OR, VT 75-07-0 Acetaldehyde WA, OR, VT 75-09-2 Methylene chloride WA, OR, VT 75-15-0 Carbon disulfide WA, OR, VT 78-93-3 Methyl ethyl ketone WA, OR, VT 79-34-5 1,1,2,2-Tetrachloroethane WA, OR, VT 79-94-7 Tetrabromobisphenol WA, OR, VT 80-05-7 Bisphenol A WA, OR, VT 80-09-1 Bisphenol S WA only (New 84-61-7 Dicyclohexyl phthalate WA only (New 84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA, OR, VT 84-75-3 Di-n-butyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
75-07-0         Acetaldehyde         WA, OR, VT           75-09-2         Methylene chloride         WA, OR, VT           75-15-0         Carbon disulfide         WA, OR, VT           78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (New           84-61-7         Dicyclohexyl phthalate         WA only (New           84-66-2         Diethyl phthalate         WA, OR, VT           84-74-2         Di-n-butyl phthalate         WA, OR, VT           84-75-3         Di-n-bexyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
75-09-2         Methylene chloride         WA, OR, VT           75-15-0         Carbon disulfide         WA, OR, VT           78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           79-94-7         Tetrabromobisphenol         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (New           84-61-7         Dicyclohexyl phthalate         WA only (New           84-66-2         Diethyl phthalate         WA, OR, VT           84-69-5         Diisobutyl phthalate         WA, OR, VT           84-74-2         Di-n-butyl phthalate         WA, OR, VT           84-75-3         Di-n-bexyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
75-15-0         Carbon disulfide         WA, OR, VT           78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           79-94-7         Tetrabromobisphenol         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (New           84-61-7         Dicyclohexyl phthalate         WA only (New           84-66-2         Diethyl phthalate         WA, OR, VT           84-69-5         Diisobutyl phthalate         WA, OR, VT           84-74-2         Di-n-butyl phthalate         WA, OR, VT           84-75-3         Di-n-bexyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
78-93-3         Methyl ethyl ketone         WA, OR, VT           79-34-5         1,1,2,2-Tetrachloroethane         WA, OR, VT           79-94-7         Tetrabromobisphenol         WA, OR, VT           80-05-7         Bisphenol A         WA, OR, VT           80-09-1         Bisphenol S         WA only (New           84-61-7         Dicyclohexyl phthalate         WA only (New           84-66-2         Diethyl phthalate         WA, OR, VT           84-79-5         Diisobutyl phthalate         WA, OR, VT           84-74-2         Di-n-butyl phthalate         WA, OR, VT           84-75-3         Di-n-hexyl phthalate         WA, OR, VT           85-68-7         Butyl benzyl phthalate         WA, OR, VT           86-30-6         N-Nitrosodiphenylamine         WA, OR, VT           87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
79-34-5 1,1,2,2-Tetrachloroethane WA, OR, VT 79-94-7 Tetrabromobisphenol WA, OR, VT 80-05-7 Bisphenol A WA, OR, VT 80-09-1 Bisphenol S WA only (New 84-61-7 Dicyclohexyl phthalate WA only (New 84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA only (New 84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
79-94-7 Tetrabromobisphenol WA, OR, VT 80-05-7 Bisphenol A WA, OR, VT 80-09-1 Bisphenol S WA only (New 84-61-7 Dicyclohexyl phthalate WA only (New 84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA only (New 84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
80-05-7 Bisphenol A WA, OR, VT 80-09-1 Bisphenol S WA only (New 84-61-7 Dicyclohexyl phthalate WA only (New 84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA, OR, VT 84-75-3 Di-n-bexyl phthalate WA, OR, VT 84-75-3 Di-n-bexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
80-09-1 Bisphenol S WA only (New 84-61-7 Dicyclohexyl phthalate WA, OR, VT 84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA, OR, VT 84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
84-61-7 Dicyclohexyl phthalate WA only (New 84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA only (New 84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
84-66-2 Diethyl phthalate WA, OR, VT 84-69-5 Diisobutyl phthalate WA only (New 84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
84-69-5 Diisobutyl phthalate WA only (New 84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
84-74-2 Di-n-butyl phthalate WA, OR, VT 84-75-3 Di-n-hexyl phthalate WA, OR, VT 85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
84-75-3     Di-n-hexyl phthalate     WA, OR, VT       85-68-7     Butyl benzyl phthalate     WA, OR, VT       86-30-6     N-Nitrosodiphenylamine     WA, OR, VT       87-68-3     Hexachlorobutadiene     WA, OR, VT       94-13-3     Propyl paraben     WA, OR, VT       94-26-8     Butyl paraben     WA, OR, VT
85-68-7 Butyl benzyl phthalate WA, OR, VT 86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
86-30-6 N-Nitrosodiphenylamine WA, OR, VT 87-68-3 Hexachlorobutadiene WA, OR, VT 94-13-3 Propyl paraben WA, OR, VT 94-26-8 Butyl paraben WA, OR, VT
87-68-3         Hexachlorobutadiene         WA, OR, VT           94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
94-13-3         Propyl paraben         WA, OR, VT           94-26-8         Butyl paraben         WA, OR, VT
94-26-8 Butyl paraben WA, OR, VT
95-53-4 2-Aminotoluene WA. OR. VT
,,
95-80-7 2,4-Diaminotoluene WA, OR, VT
99-76-3 Methyl paraben WA, OR, VT
99-96-7 4-Hydroxybenzoic acid WA, OR, VT
100-41-4 Ethylbenzene WA, OR, VT
100-42-5 Styrene WA, OR, VT
104-40-5 4-Nonylphenol WA, OR, VT
106-47-8 4-Chloroaniline WA, OR, VT
107-13-1 Acrylonitrile WA, OR, VT
107-21-1 Ethylene glycol WA, OR, VT
108-88-3 Toluene WA, OR, VT
108-95-2 Phenol WA, OR, VT
109-86-4 2-Methoxyethanol WA, OR, VT

CAS#	Chemical	Which state?
110-80-5	Ethylene glycol monoethyl ether	WA, OR, VT
115-86-6	Triphenyl phosphate	WA only (New)
115-96-8	Tris(2-chloroethyl) phosphate	WA, OR, VT
117-81-7	Di-(2-ethylhexyl) phthalate	WA, OR, VT
117-82-8	Di-(2-methoxyethyl) phthalate	WA only (New)
117-84-0	Di-n-octyl phthalate	WA, OR, VT
118-74-1	Hexachlorobenzene	WA, OR, VT
119-93-7	3,3'-Dimethylbenzidine and Dyes	WA OD VE
119-93-7	Metabolized to 3,3'-	WA, OR, VT
120-47-8	Ethyl paraben	WA, OR, VT
123-91-1	1,4-Dioxane	WA, OR, VT
126 72 7	Tris (2,3-dibromopropyl)	WAI (N)
126-72-7	phosphate	WA only (New)
126-73-8	Tri-n-butyl phosphate	WA only (New)
127-18-4	Tetrachloroethene	WA, OR, VT
131-18-0	Dipentyl phthalate	WA only (New)
131-55-5	Benzophenone-2	WA, OR, VT
140-66-9	7.1	
140-67-0	Estragole	WA, OR, VT
149-57-5	2-Ethylhexanoic acid	WA, OR, VT
335-67-1	Perfluorooctanoic acid	WA only (New)
608-93-5	Pentachlorobenzene	WA, OR, VT
620-92-8	Bisphenol F	WA only (New)
842-07-9	C.I. solvent yellow 14	WA, OR, VT
872-50-4	N-Methylpyrrolidone	WA, OR, VT
1163-19-5	Decabromodiphenyl ether	WA, OR, VT
1241-94-7	Ethylhexyl diphenyl phosphate	WA, OR, VT
1330-78-5	Tricresyl phosphate	WA only (New)
1763-23-1	Perfluorooctane sulfonic acid and	WA, OR, VT
	its salts	
1806-26-4	4-Octylphenol	WA, OR, VT
5466-77-3	2-Ethyl-hexyl-4-	WA, OR, VT
2100 11-3	methoxycinnamate	711, OIC, VI
	Mercury & mercury compounds	
7439-97-6	including methyl mercury	WA, OR, VT
	(22967-92-6)	

CAS#	Chemical	Which state?
7440-36-0	Antimony & Antimony compounds	WA, OR, VT
7440-38-2	Arsenic & Arsenic compounds including arsenic trioxide (1327- 53-3) & dimethyl arsenic acid (75-60-5)	WA, OR, VT
7440-43-9	Cadmium & cadmium compounds	WA, OR, VT
7440-48-4	Cobalt & cobalt compounds	WA, OR, VT
13674-84-5	Tris (1-chloro-2-propyl) phosphate	WA only (New)
13674-87-8	Tris(1,3-dichloro-2- propyl)phosphate	WA, OR, VT
25013-16-5	Butylated hydroxyanisole	WA, OR, VT
25154-52-3	Nonylphenol	WA, OR, VT
25637-99-4	Hexabromocyclododecane	WA, OR, VT
26040-51-7	Bis (2-ethylhexyl) tetrabromophthalate	WA only (New)
26761-40-0	Diisodecyl phthalate	WA, OR, VT
28553-12-0	Diisononyl phthalate (unbranched)	WA, OR, VT
38051-10-4	Bis (chloromethyl) propane-1,3- diyl tetrakis-(2-chloroethyl) bis(phosphate)	WA only (New)
68937-41-7	Isopropylated triphenyl phosphate	WA only (New)
84852-15-3	4-Nonyl phenol branched	WA, OR, VT
84852-53-9	Decabromodiphenyl ethane	WA only (New)
85535-84-8	Short-chain chlorinated paraffins	WA only (New)
108171-26-2		WA only (New)
183658-27-7	2-ethylhexyl-2,3,4,5- tetrabromobenzoate	WA only (New)



### Federal: Toxic Substances Control Act (TSCA) Reform

The House passed bipartisan TSCA reform and President Obama signed the bill into law in May 2016

Original House Vote: 398 to 1







# Hot Topics & Docs



Calls and Events

**KEY 2018 PRODUCT SAFETY RESOURCES** 

OTHER RESOURCES

2018 CALLS/EVENTS

PAST CALLS/EVENTS

#### Prop 65 Resources

FDRA Prop 65 Tracking Document

FDRA Member Alert - Key Changes to Prop 65

FDRA Member Webinar: 2018 Prop 65 Changes

FDRA Product Safety Guidebook (RSL)

FDRA and TUV SUD Global Product Safety Guidebook

FDRA's Interactive Guide to Chemical & Physical Testing for Footwear

State Chemical Safety Laws

WA State Reporting: What Footwear Companies are Reporting

Patchwork of State Chemical Safety Laws Presentation

Managing Chrome VI Challenges: Webinar by TUVSUD

FDRA Member Memo: CPSC's New Product Testing & Certification Program Regulations

CPSC Recall Handbook

Consumer Product Safety Commission (CPSC) Guidance on Recalls

Consumer Product Safety Improvement Act (CPSIA)

Consumer Product Safety Commission 3rd party Testing Information

California's Proposition 65 Law

Understanding California's Prop 65 & Footwear (Background Sheet)

FDRA's Quarterly Footwear Chemical Fail Rate Analysis Report Q3 2016

Working Group Call

September 20, 2018 at 2 p.m. EDT

Click here to listen to the recording

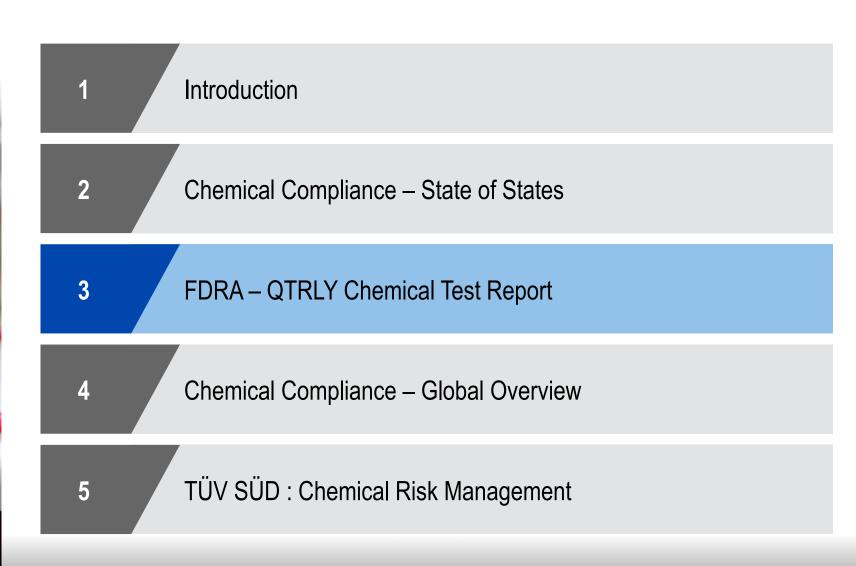
Working Group Call

July 26, 2018 at 2 p.m. EDT

Click here to listen to the recording









### FDRA's New Risk Based Approach to Global Chemical Compliance



### Footwear Chemical Fail Rate Analysis Top 10 Chemicals by Quarter

2nd Quarter 2018 (April - June)

	Lab: TÜV SÜD						
	Test Item	Material	Test Method	Requirement	Number of Tests	Fail Rate	
1	Dimethylformamide (DMFA)	Costed Textile	ISO 16189	Skin Contact:<50mg/kg Without Skin Contact:300 mg/kg	832	40.38%	
2	Chromium VI - wet test	Leather	ISO 17075 BVL B 82.02-11	< 3.0 mg/kg	1059	11.14%	
3	рн	Leather and Textile	ISO 4045 ISO 3071	Leather: 3.5 - 9.0 Textile: 4.0-7.5	6805	8.67%	
4	Migration of certain elements	Textile, Plastic, and Coating	ASTMF963-11, EN 16711-2, ISO 17072-1	Pb<90, Sb<60, As<25, Ba<1000, Cd<75, Cr<200, Hg<60, Se<500ppm	970	5.36%	
5	NP, OP, NPEO, OPEO	Textile and Leather	ISO 18254-1 ISO 18218-1	Each<100 mg/kg	5512	4.93%	
6	Total Arsenic & Cadmium Content	Coating, Plastics, and Metal	Acid digestion, Microwave digestion	Arsenic < 50 mg/kg; Cadmium < 100 mg/kg	2823	4.07%	
7	Phthalates	Plastics and Coating	CPSC-CH-C1001-09.3 ISO/TS 16181	<1000 mg/kg	9943	3.44%	
8	SCCP	Plastics, Textile, and Leather	ISO 18219	<1000 mg/kg	2408	2.70%	
9	PAH	Plastics and Coated Material	AFPS GS 2014:01 PAH	Each PAH<0.2 mg/kg; Sum of 18 PAH<10 mg/kg	6292	2.62%	
10	Formaldehyde	Leather and Textile	ISO 17226-1 ISO 14184-1	< 20 mg/kg for kids < 75 mg/kg for skin contact	8814	2.51%	

- 1. DMFA
- 2. Cr VI
- 3. pH
- 7. Phthalates
- 10. Formaldehyde







1 Introduction

2 Chemical Compliance – State of States

FDRA – QTRLY Chemical Test Report

Chemical Compliance – Global Overview

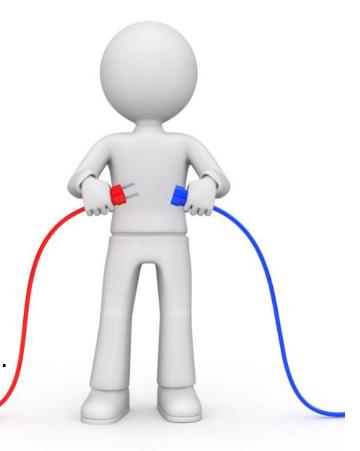
TÜV SÜD : Chemical Risk Management



### REACH - Legal Requirements on hazardous substances in Europe

### **EU** regulations vs. **EU** directives

- EU regulations are directly applicable law in all EU countries.
  - A "regulation" is a binding legislative act.
  - It must be applied in its entirety across the EU.
  - For example, when the EU wanted to make sure that there are common safeguards on goods imported from outside the EU, the Council adopted a regulation.
- EU directives must be converted into national laws by the national parliaments of the member states.
  - A "directive" is a legislative act that sets out a goal that all EU countries must achieve.
  - It is up to the individual countries to devise their own laws on how to reach these goals.





### Legal Requirements on hazardous substances in Europe

### **General EU regulations**

- REACH regulation (Regulation (EC) No 1907/2006)
   regulates the Registration, Evaluation, Authorisation and Restriction of Chemicals
- POP regulation (Persistent Organic Pollutants, Regulation (EC) No 850/2004)
   restricts certain persistent chemicals compounds in articles and mixtures
- BPR regulation (Biocidal Products Regulation, Regulation (EU) No 528/2012)
   regulates the use of biocides in articles and mixtures

### **Product group specific EU directives**

- ROHS directive (DIRECTIVE 2011/65/EU)
   restricts the use of certain hazardous substances in ENE equipment
- Toys directive (DIRECTIVE 2009/48/EC) restricts hazardous substances in toys etc.
- Packaging directive (DIRECTIVE 94/62/EC)
   restricts the concentration of certain heavy metals in packaging





### Legal Requirements on hazardous substances in Europe

### **National laws and regulations**

- National regulations covers articles which are not or not completely covered by harmonized EU directives or regulations, e. g.
  - Food contact materials
  - Materials in contact with drinking water
  - Textiles, Shoes
  - Furniture
  - Construction products ...





# REACH – Title VIII and Annex XVII – Restrictions on dangerous substances and mixtures

### **Article 67 General provisions**

- A substance on its own,
  in a mixture or in an article,
  for which Annex XVII contains a restriction
  shall not be manufactured, placed on the market or used
  unless it complies with the conditions of that restriction.
- Annex XVII includes 71 substances





### REACH – Draft amendment of restrictions in Annex XVII

### DRAFT: Restriction of CMR substances in textile articles and clothing for consumer use

- Expected publication: 3<sup>rd</sup> quarter 2018
- Expected enter into force: 3<sup>rd</sup> quarter 2020
- Proposed scope of restrictions:
  - Clothing or related accessories
  - Textiles other than clothing
     which, under normal or reasonably foreseeable conditions of use,
     come into contact with human skin to an extent similar to clothing
  - Footwear

Further information: <a href="https://www.tuv-sud.com/home-com/resource-centre/publications/e-ssentials-newsletter/consumer-products-e-ssentials/e-ssentials-4-2018/eu-reach-wto-draft-restriction-on-cmrs-in-textiles">https://www.tuv-sud.com/home-com/resource-centre/publications/e-ssentials-newsletter/consumer-products-e-ssentials/e-ssentials-4-2018/eu-reach-wto-draft-restriction-on-cmrs-in-textiles</a>





# REACH – Title VIII and Annex XVII – Restrictions on dangerous substances and mixtures

### Examples of restricted substances, highly relevant for textile, footwear and accessory

- 4. Tris (2,3 dibromopropyl) phosphate
- 6. Asbestos fibres
- 7. Tris(aziridinyl)phosphinoxide
- 8. Polybromobiphenyls; Polybrominatedbiphenyls (PBB)
- 20. Organostannic compounds
- 23. Cadmium
- 27. Nickel
- 43. Azocolourants and Azodyes
- 45. Diphenylether, octabromo derivative

- 46a. Nonylphenol ethoxylates (from 2021-02-03)
- 47. Chromium VI compounds
- 50. Polycyclic-aromatic hydrocarbons (PAH)
- 61. Dimethylfumarate (DMF)
- 63. Lead
- 67. Bis(pentabromophenyl)ether
   (Decabromodiphenylether, DecaBDE) (from 2019-03-02)
- 68. Perfluorooctanoic acid (PFOA) (from 2020-07-04)



### REACH - SVHC

### **SVHC -Substances of Very High Concern (Article 57)**

- Substances which are
  - Carcinogenic
  - Germ cell mutagenic
  - Reproductive toxic
  - Persistent, bioaccumulative and toxic
  - Endocrine disruptors
- SVHC candidate list established acc. to Article 59 includes 191 substances (as at 2018-06-27)
   <a href="https://echa.europa.eu/candidate-list-table">https://echa.europa.eu/candidate-list-table</a>
- SVHC candidate list is usually updated every 6 month





## REACH – Information obligations on SVHC

### **Article 33 Duty to communicate information on substances in articles**

- 1. Any supplier of an article
  - containing a SVHC in a concentration above 0,1 % weight by weight (w/w)
  - shall provide the recipient of the article with sufficient information, available to the supplier,
  - to allow safe use of the article including, as a minimum, the name of that substance.

Each dealer, importer, supplier, etc. must inform his business partner within the supply chain without being asked if his products contain SVHC with more than 0.1% (w/w).





# REACH – Information obligations on SVHC

### **Article 33 Duty to communicate information on substances in articles**

- 2. On request by a consumer
  - any supplier of an article
  - containing a SVHC above 0,1 % weight by weight (w/w)
  - shall provide the consumer with sufficient information, available to the supplier,
  - to allow safe use of the article including, as a minimum,
     the name of that substance.
  - The relevant information shall be provided, free of charge, within 45 days of receipt of the request.





## REACH – Title II Notification obligations concerning SVHC

#### **Notification – How, Who & What?**

- Notification submissions are free-of-charge. It must be submitted to the ECHA in the IUCLID format via the REACH-IT platform on the ECHA website by one of the following parties:
  - i. EU article producer;
  - ii. EU importer;
  - iii. EU Only Representative (OR) on behalf of a non-EU company.
- The list of information required for a notification include:
  - Identity and contact details of the EU producer/importer
  - ii. Registration number(s), if available
  - iii. Substance identity
  - iv. Substance classification
  - v. Substance uses
  - vi. Tonnage range





## REACH – Title II Notification obligations concerning SVHC

#### **Article 7(2) Registration and notification of substances in articles**

- Any producer or importer of articles shall notify the ECHA, if both the following conditions are met:
  - an SVHC is present in those articles
     in quantities totalling over one tonne per producer or importer per year;
  - an SVHC is present in those articles
     above a concentration of 0,1 % weight by weight (w/w).



## Testing solutions for Sustainability



Colvs8ider Product Services Portfolio 25-Sep-18



# Higg Facility Environmental Module (FEM) 3.0

Developed by the Sustainable Apparel Coalition (SAC), the Higg FEM 3.0 allows facilities to standardise how they measure and evaluate the environmental performance of their facilities.

- A facility-level self-assessment tool that enables rapid learning through identification of environmental sustainability
  hot spots, existing level of performance and improvement opportunities.
- A way to inform organizations of their strengths and weakness, drive business value throughout the value chain by
  presenting opportunities for cost-saving and innovation, and catalyse sustainability education and collaboration.
- Higg Facility Envionment Module measures
  - 1. Environmental Management System
  - 2. Energy Use & Greenhouse Gas
  - 3. Water Use
  - 4. Wastewater/ Effluent
  - 5. Emissions to Air
  - 6. Waste Management
  - 7. Chemicals

#### **Our Services**

With our SAC approved verifiers, we can support the validation of the Higg Index self-assessment accuracy for apparel and footwear manufacturing facilities before the facilities can post and share its Higg index verification results with SAC members on the online platform Higg.org

Cölys8ider Product Services Portfolio 25/09/2018

#### **Finishes**

#### Metals titanium dioxide and titanium compounds

- > silicates and silicon compounds
- > vanadium (catalyst)
- aluminum and copper (process water)
- > mercury in dying
- > Cadmium (in leather)

#### Coatings/Finishes

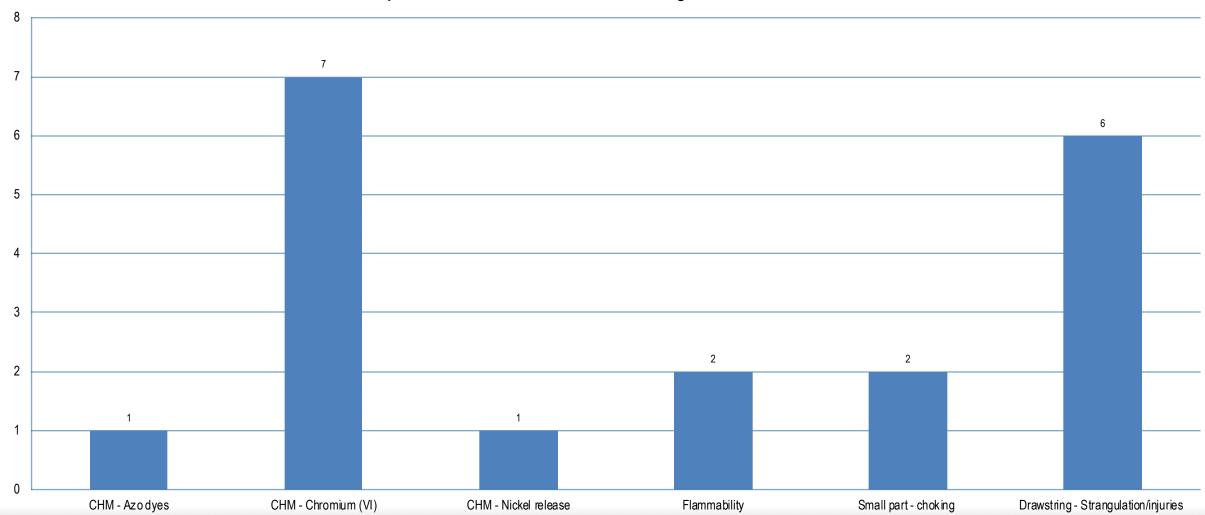
- > graphene / nanoparticles
- > flame retardants
- > Antimicrobials
- ➤ Anti-wrinkle/Anti stain

#### Other

> • microfibers

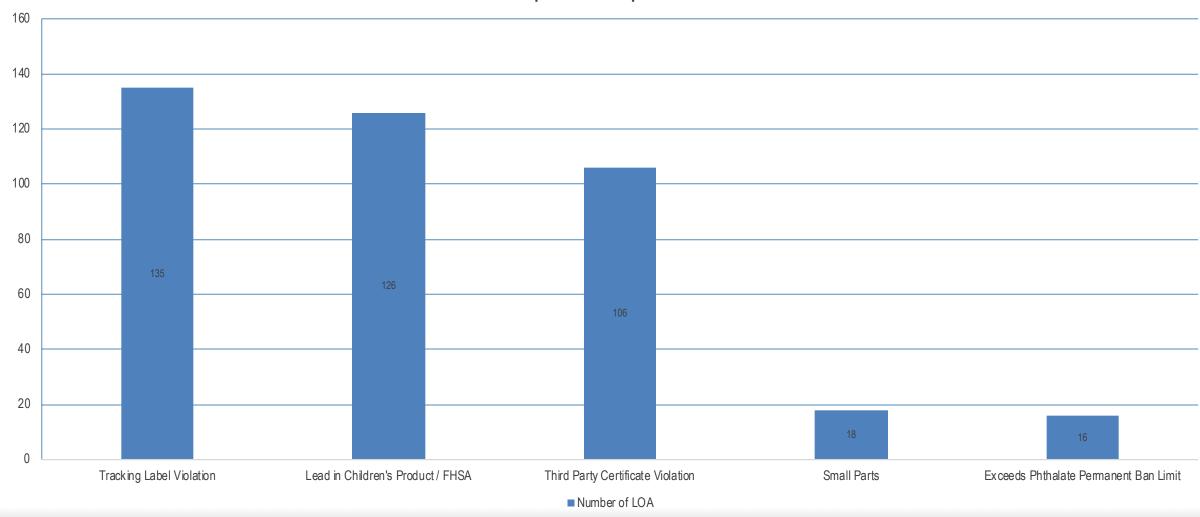
### RAPEX ANALYSIS

#### 2018 Apr to Jun - Notification cases for clothing, textiles and fashion items



### **CPSC RECALL ANALYSIS**

#### 2018 Apr to Jun - Top 5 Violations









1 Introduction

Chemical Compliance – State of States

FDRA – QTRLY Chemical Test Report

4 FDRA – Chemical Test Report

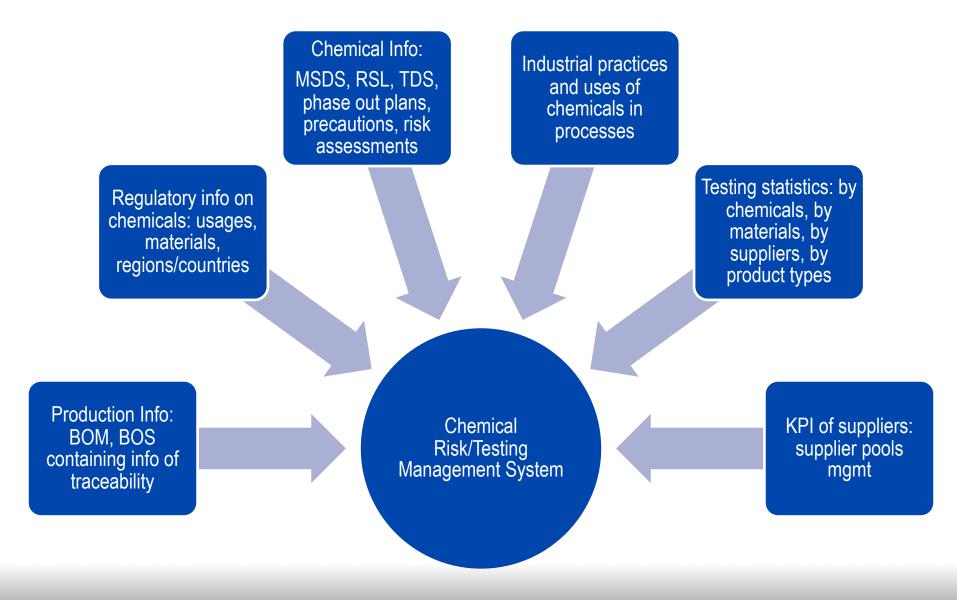
TÜV SÜD : Chemical Risk Management

### TÜV SÜD - Chemical Data Management System (CDMS)

### The CDMS is an intelligent database and possesses the following features:

- a) an automatic BoM-comparison algorithm to return advices on testing activities <u>by taking</u> supplier performance into consideration.
- b) a mathematical model for uncorrelated data to compute the passing probabilities of materials and final products subject to predefined acceptance limits;
- a time-evolving probability calculation making use of a rolling time-frame concept to reflect dynamically the performance of suppliers;
- d) a predictive power to forecast the passing rates of raw materials or/and final products upon acceptance limit or evaluation criteria changes The Risk Cube.

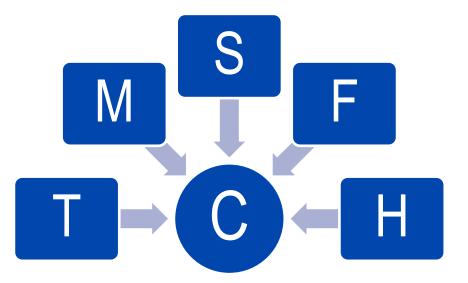
### The Chemical Data Management System (CDMS)



### Quantitative Risk Assessment and Sensible Testing

### Confidence level (C) of passing a test for a test point

- Test parameter (T)
- Material type (M)
- Raw material supplier (S)
- Manufacturing factory (F)
- Test History (H)



$$C = f(T, M, S, F, H)$$
  
 $C \approx g(T, M, \text{testing statistics in StarLIMS})$ 

### Quantitative Risk Assessment and Sensible Testing

### Test Matrix

**Parameters** 

### **Material type**

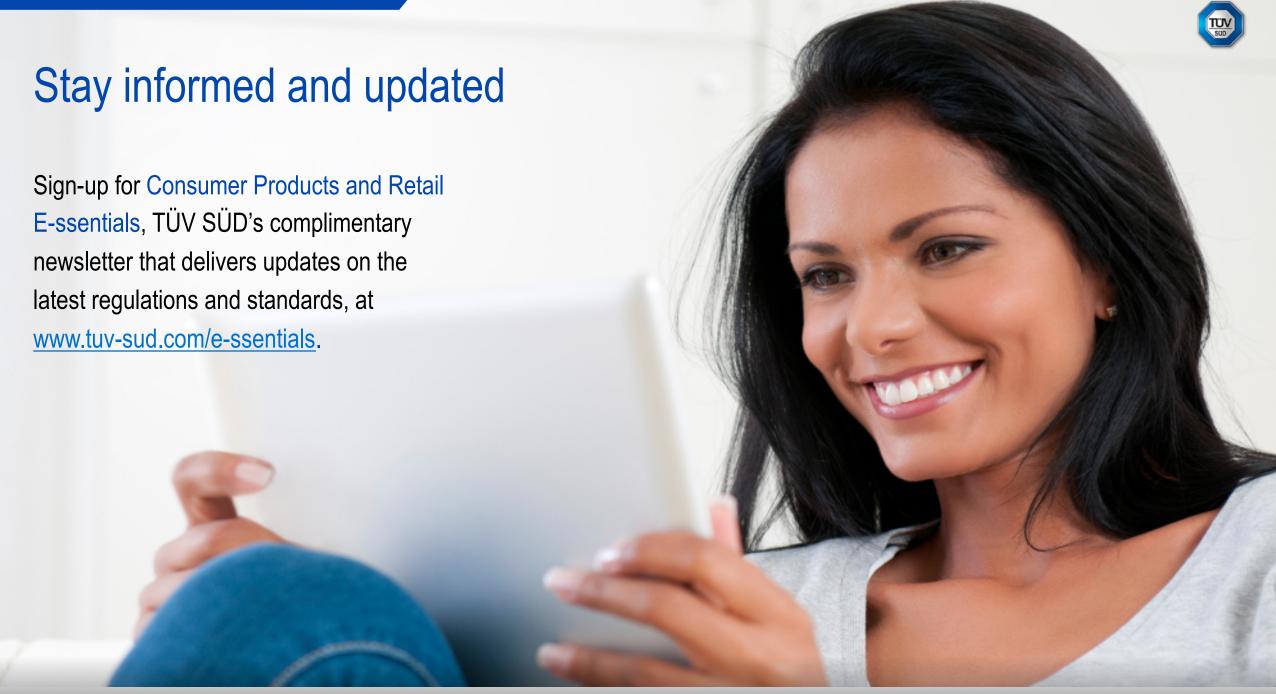
	M <sub>1</sub>	M <sub>2</sub>	 M <sub>j-1</sub>	M <sub>j</sub>
P <sub>1</sub>	C(1,1)	C(1,2)	 C(1,j-1)	C(1,j)
P <sub>2</sub>	C(2,1)	C(2,2)	 C(2,j-1)	C(2,j)
P <sub>i-1</sub>	C(i-1,1)	C(i-1,2)	 C(i-1,j-1)	C(i-1,j)
Pi	C(i,1)	C(i,2)	 C(i,j-1)	C(i,j)

C(i,j) could be computed from the database of LIMS and managed in CDMS

### **Applications**



CHANSCED Management and the Detox Campaign



# Increased focus of impact of chemicals

- Growing concerns on the impact of chemicals used in production on environment and human health
- Manufacturers and retailers must minimise the impact of hazardous chemicals on their supply chains, environment and consumers.



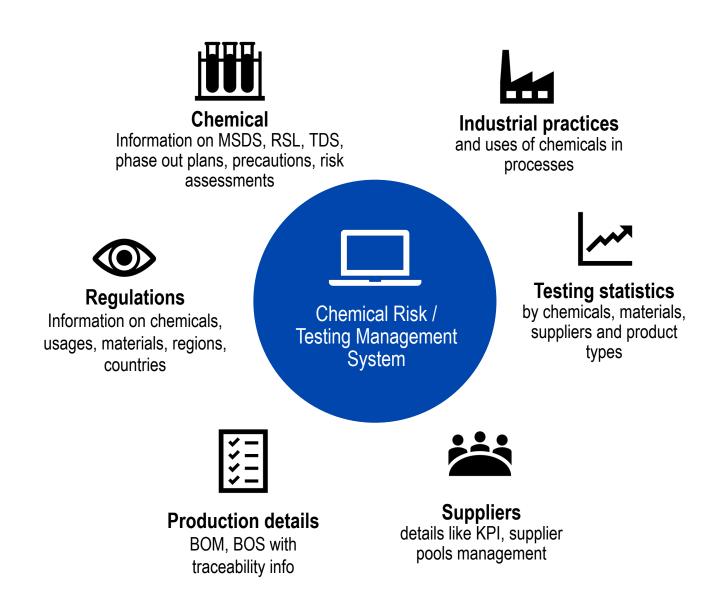
# How to address the supply chain challenge?

- Establish a successful chemical management process integrated with a Chemical Management Data System (CDMS).
- This will allow you to compile and analyse data to increase the efficacy of your testing program.



# What is a Chemical Data Management System (CDMS)?

- The CDMS is "a smart system", with a core database, that collects and analyses your chemical test results in one space.
- It also makes specific recommendations to you to improving your testing program while reducing costs.



### What are the CDMS' key features?

- An automatic BoM-comparison algorithm to return statistically significant "advice" by taking supplier chemical testing performance into consideration.
- A mathematical model for uncorrelated data to compute the passing probabilities of materials and final products subject to predefined acceptance limits; a time-evolving probability calculation making use of a rolling time-frame concept to reflect dynamically the performance of suppliers;
- A predictive power to forecast the passing rates of raw materials or/and final products upon acceptance limit or evaluation criteria changes – The Risk Cube.



# Thank you for your attention!

Global website: www.tuv-sud.com/cps

