

Retailer Webinar Series

IKEA's Chemicals Policy and Actions to Substitute Chemicals of Concern

October 22, 2015



What is the GC3?

- Business-to-business forum
- Cross-sectoral: many industry sectors represented
- Mission to advance green chemistry across supply chains
- Formed in 2005 - 99 member companies and organizations



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GC3

Today's Speaker

THERESE LILLIEBLADH



**Chemical Specialist Team Manager,
Department of Product Requirements and Compliance
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Ground Rules

- Due to the number of participants in the webinar, all lines will be muted
- If you have a question or comment, please type in the Q&A box located in the drop-down control panel at the top of the screen
- Questions will be answered at the end of the presentation

IKEA's Chemicals Policy and Actions to Substitute Chemicals of Concern



Therese Lilliebladh
IKEA of Sweden

GC3 webinar 2015-10-22

Overview

IKEA – facts and figures

The IKEA vision

Cornerstones of the IKEA chemical strategy

IKEA Chemical Policies

How to secure compliance?

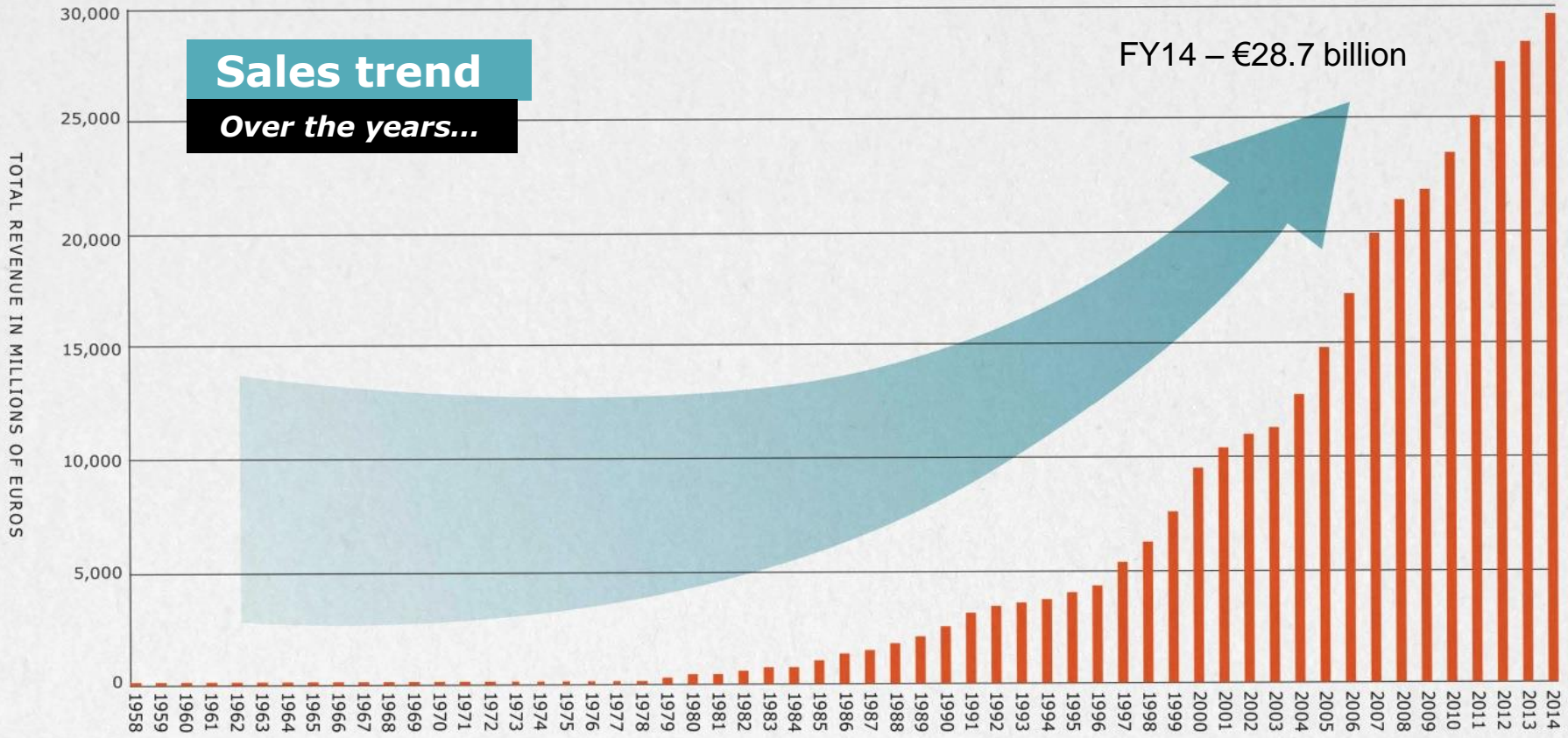
How do we substitute/phase-out chemicals of concern?

Phase-out examples



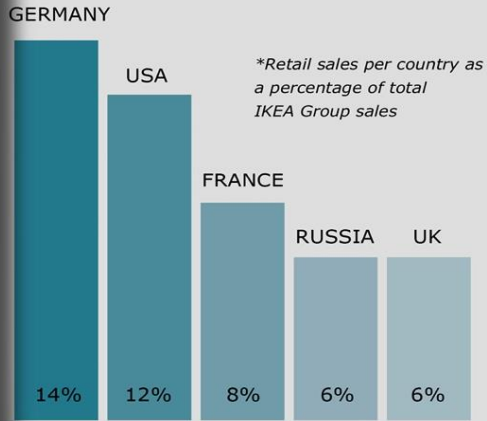
- **Global retail brand**
- **10.000 products**
- **147,000 co-workers**
- **322 IKEA Group stores in about 30 countries**
- **716 million store visits**
- **1,5 billion visits to IKEA.com**
- **27 Purchasing Offices**
- **1,000 suppliers in 51 countries**
- **34 Distribution Centers**
- **€28,7 billion in total sales FY14**





IKEA Group at a Glance FY14

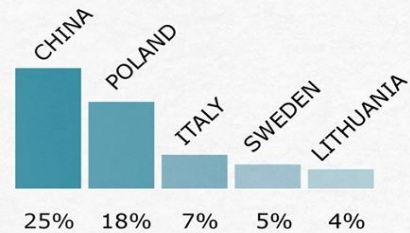
TOP 5 SELLING COUNTRIES*



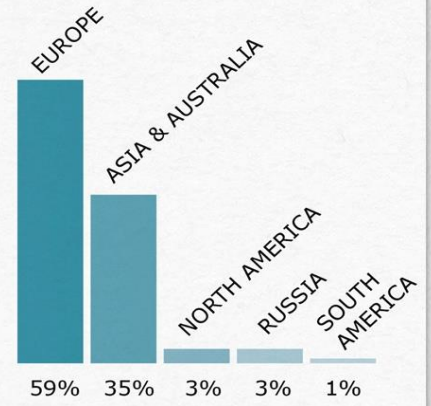
SALES PER REGION

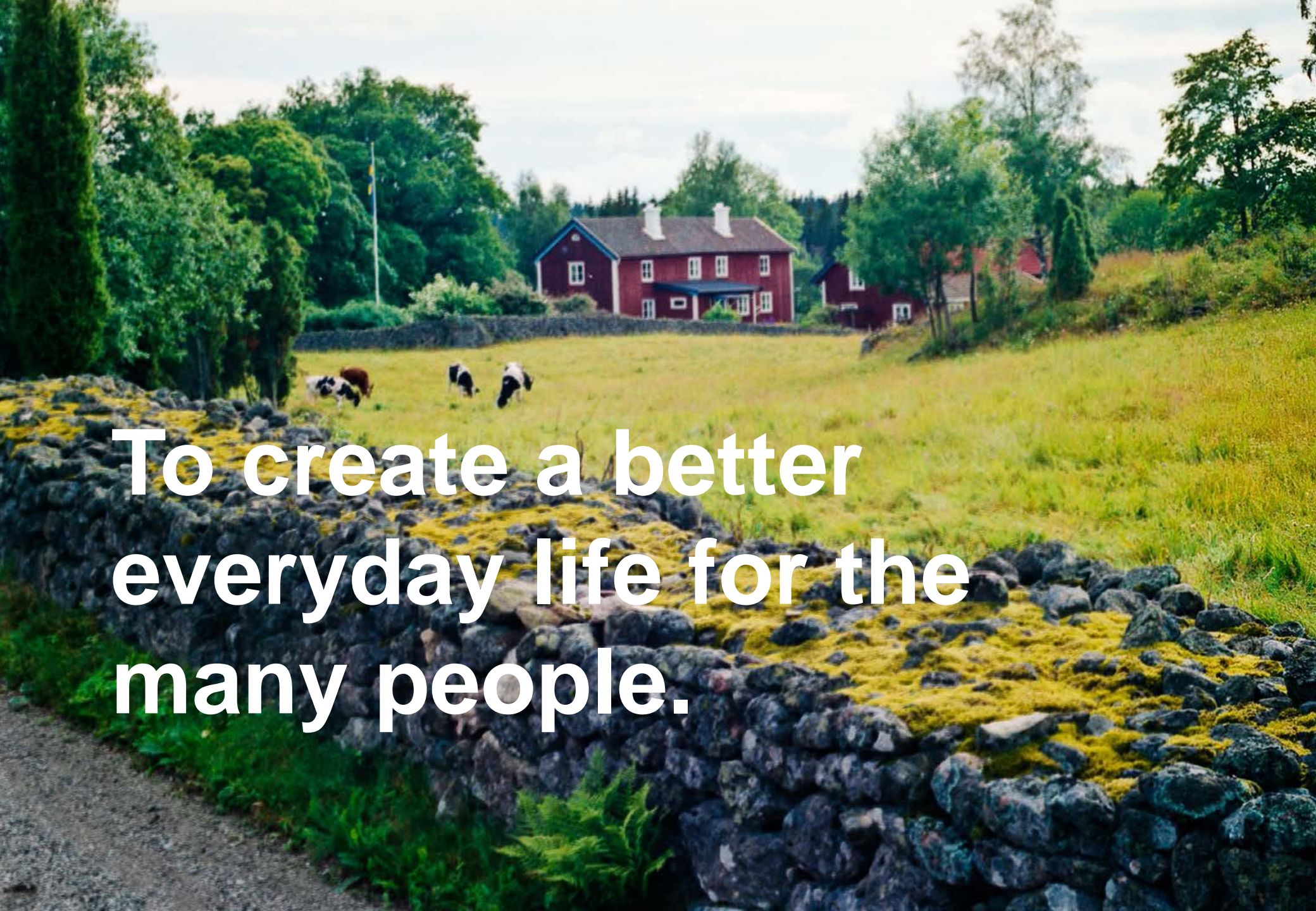


TOP 5 PURCHASING COUNTRIES



PURCHASING PER REGION





**To create a better
everyday life for the
many people.**



Main principals for our chemical policies

- IKEA wants to **minimize or totally refrain from** use of chemicals that can be harmful to people or environment
- We try to **phase out potentially harmful chemicals** already before they are regulated

IKEA Chemical Strategy





Objectives

1. All materials used in IKEA products are **assessed** for chemical safety
2. Increased and systematic **knowledge** on chemical content
3. **Phase-out** Harmful Substances or Materials
4. **Our suppliers** share our values on chemical safety and compliance
5. Internal and external **awareness** about IKEA work on chemicals in order to build trust

IKEA Requirements



IKEA Product Requirements



IKEA Specification
Chemical compounds and substances

Spec. No: IOS-MAT-0010
Date: 2013-05-10
Version no: AA-10911-11

Signature: [Signature] Replaces: AA-10911-10

Issued by: Annika Lished, Product Requirements and Compliance Specialist
Authorized by: Pär Stenmark, Manager Product Requirements & Compliance/IKEA of Sweden

Chemical compounds and substances

Contents
This specification describes IKEA bans and restrictions on certain chemical compounds and substances due to national or international regulations and/or health and environmental concerns.

Implementation of changes
Changes in this specification, version no AA-10911-11, shall be implemented the latest from packaging date stamp 1337 (year 2013 week 37) unless otherwise stated below:

- For the requirement on APE/OAO in polymers: extended implementation time is given until date stamp 1402 (year 2014 week 02). See section 3.4.
- For the requirement that organotin compounds are not allowed to be used at the site of production of polyurethane for IKEA upholstery furniture, extended implementation time is given until date stamp 1345 (year 2013 week 45). See section 3.5.

Packaged products having a packaging date stamp earlier than as specified above shall be shipped to IKEA before shipping products compliant with this version of the specification.

Any existing approvals that are not already connected to the Product Documentation shall be re-applied to IKEA on a form supplied by IKEA:

- latest 2013-08-15 for:
 - use of flame retardants,
 - use of perfluorinated or partially perfluorinated substances,
 - use of biocides added in order to impart properties to the final product,
 - use of wood preservatives in rubberwood and fruit-tree wood;
- latest 2014-08-15 for:
 - use of fragrances,
 - use of recycled material from external source.



Concerns when establishing chemical requirements

- Customer Health and Safety
- Working environment at the suppliers
- Outside environment



General principals

- The **strictest regulation on any of our sales markets** - as a minimum requirement
- In many cases, even **stricter requirements than required by any regulation**
- Requirements for **each homogenous material** (except for emissions- per article)
- Phase out whole **classes of chemicals**

How does IKEA ensure that the products fulfill the requirements?





Training

- Train the **product development teams** in our requirements
- **Chemical Compliance Awareness Training** for Suppliers (Management level)
- In depth **Chemical Compliance workshops** for Suppliers (Chemical Compliance Navigators)



Choosing the right suppliers

- Long- term collaboration
- Stable partnership
- Develop and improve

- Systematically follow up on chemical compliance (document reviews, spot tests etc)



Testing

- **Testing** in internal and external laboratories
 - Under product development
 - Under production (before first delivery and continuously)
 - At revisions
 - As spot-checks
- If we suspect an issue

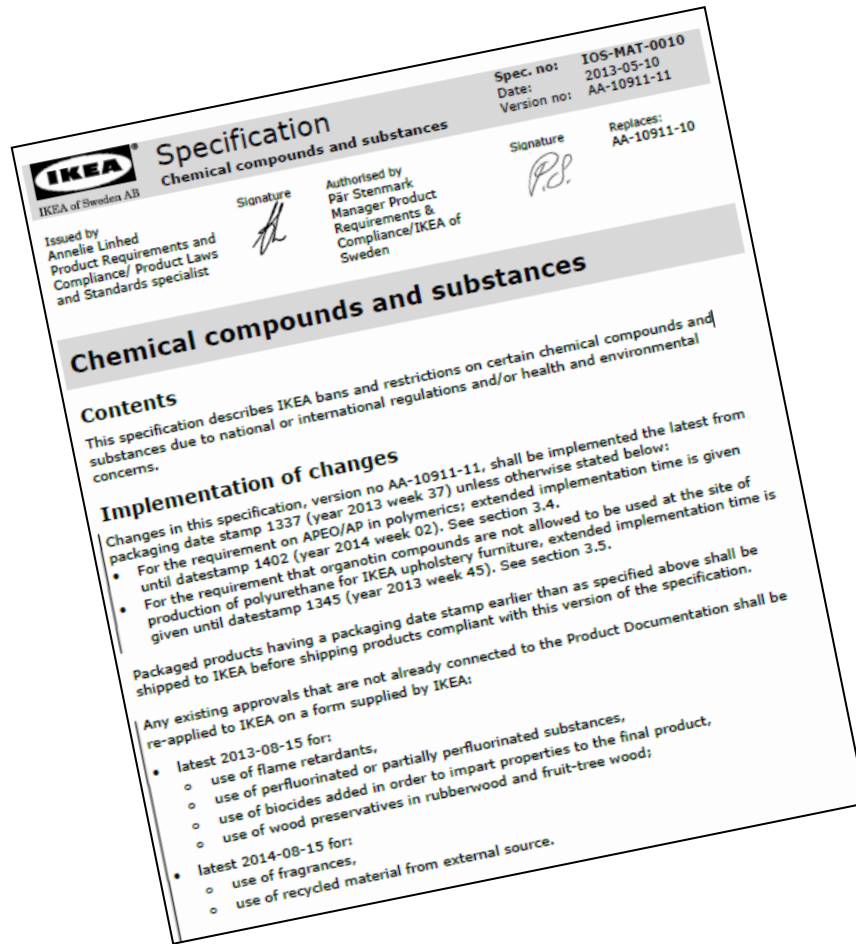


Chemical Risk Assessments

- **Material Risk Assessments**
- **Product Risk Assessments** (during product development)
- **Production Risk Assessments**

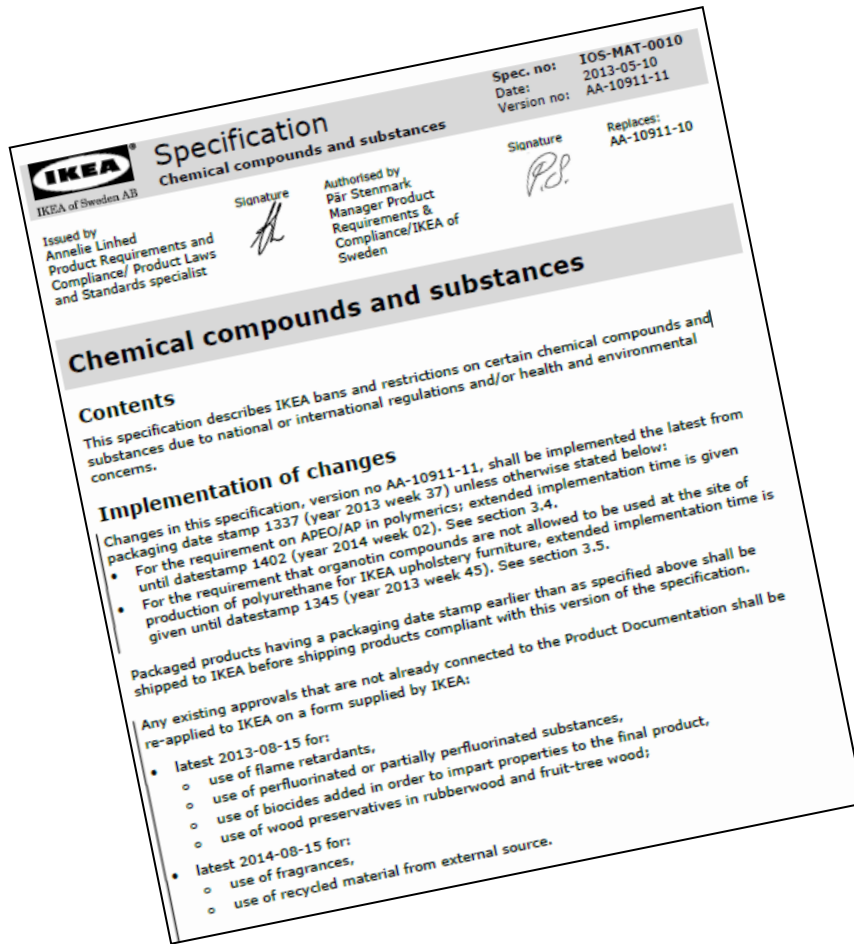
Phase-out/Substitution of Chemicals of concern





Identified chemical **hazards and risks** shall lead to phase-out actions or other preventative actions

1. Is the chemical really needed? Is the particular property really needed?
2. If yes, can we develop/change the material (with no need for chemicals)
3. Can an alternative substance be used? Are the alternatives available really more safe? What data are available?



No

CMR category 1A and 1B

SVHC (Substances of Very High Concern)

PBT (Persistent, Bioaccumulative and toxic) substances

Also, avoid eg SIN list chemicals, eg Hormone disruptive substances

Examples of our proactive work





Phthalates

Ban on all phthalates that are:

- listed as substances of very high concern (SVHCs) in REACH;
- classified as carcinogenic, mutagenic or reprotoxic (CMR) in the EU; or
- that are on the California Proposition 65 list of chemicals known to cause cancer, birth defects or other reproductive harm

AND ban on all phthalates in children's products and food contact materials





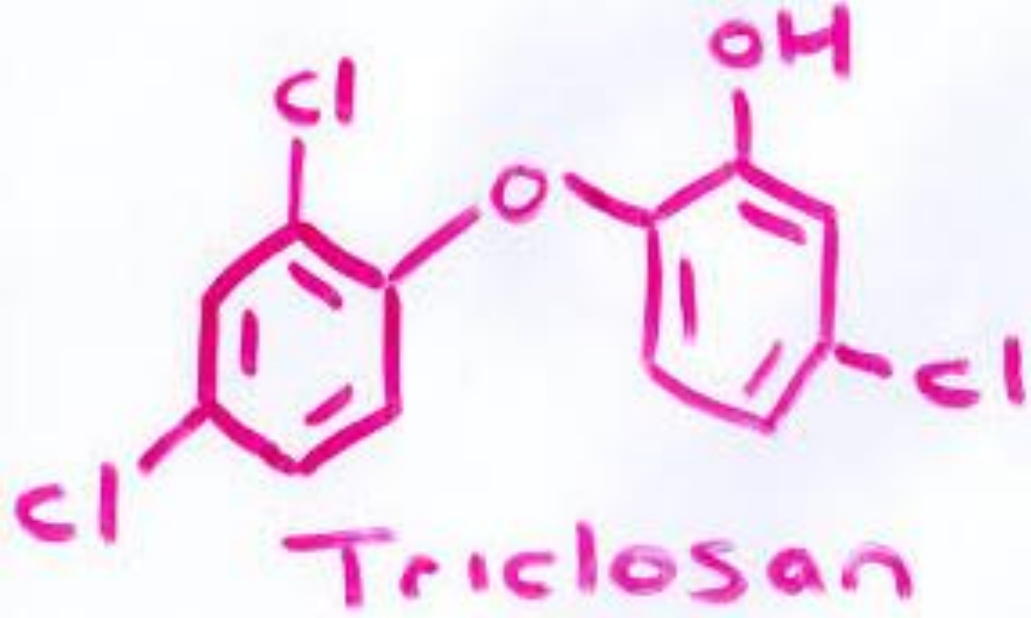
Highly Fluorinated Chemicals

- **2009** - Ban on **PFOA, PFOS, PFOSA** and their derivatives + approval needed from IKEA for other fluorinated chemicals
- **2012** - Decision to not allow any **PFAS** treatment of our sofa covers
- **2013** - Ban on new applications for all PFAS
- **2015** - Only one product treated
- **2016** - Ban for all PFAS on textiles



Antimicrobials

- 2002 – Ban for **triclosan**
- 2003 - **Biocides in order to impart the properties of the final products** – not allowed without approval





Flame retardants

- 2000 – Ban on **brominated flame retardants**
- 2007 Ban on **chlorinated paraffines** (alkanes) and TEPA
- 2009 TDCP, TCEP, TPP, TCP
- 2015 Launch of **new fire barrier interliner** – no need for chemical FR!




Bisphenols

- **2006** – Ban on **polycarbonate (PC) plastic** (BPA containing) in children products
- **2011** – Ban on **bisphenols** in thermal receipts
- **2012** - Ban on **polycarbonate (PC) plastic** (Bisphenol A containing) in food contact materials
- **2015** – Ban on **bisphenols** in food contact materials



Ten phase-out examples



1995 – PVC*

1996 – Azodyes releasing carcinogenic arylamines in textiles/leather

2000 – All brominated flame retardants*

2005 – Cr-VI in chrome plating

2006 – Bisphenol A in polycarbonate for children's products (0-7 yrs)

2006 – Lead in metal fittings

2008 – Cr-VI in chromating/anodizing

2010 – Lead in mirror backings

2012 – Bisphenol A in polycarbonate for food contact products

2015 – Compact fluorescent lighting (→ LED)

* exception for electrical articles

"Most things still remain to be done. A glorious future!" Ingvar

Kamprad, Founder of IKEA



Do you want further information on IKEA's work on chemicals?

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... or have a look at the **IKEA Sustainability report for 2014**
http://www.ikea.com/ms/en_US/this-is-ikea/people-and-planet/index.html



Upcoming Events

WEBINAR

The Green Chemistry Innovation Portal: Connecting to Excellence in Innovation

Monday, October 26, 2015 at 1PM ET

WEBINAR

GC3 Green Chemistry Education Webinar Series - Chemical Hazard Assessment: Informing Decisions for Safer Chemicals, Materials and Products

Tuesday, November 10, 2015 at 1PM ET



11th Annual GC3 Innovators Roundtable

Hilton Burlington Hotel, Burlington VT

May 24-26, 2015



Thanks for joining us!

For more information about the GC3:
www.greenchemistryandcommerce.org

