

Afera Technical Seminar 2015

Is there impact from chemical regulation to tape industry

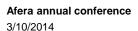


Amy Aerts, Regulatory Affairs manager

Presentation today...



- Is there impact of chemical regulation on business today?
- 2. What were the biggest changes in the regulatory climate?
 - IMDS
 - RoHS
 - REACH
 - **...**
- 3. Are there new changes to expect?
- 4. How to deal with regulatory issues in your company?
- 5. Conclusion



Regulatory

1. Is there impact today?



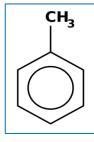
$$H_2N$$
 N
 N
 $COOH$

C,C azodicarbonamide

Blowing agent for PVC, PE an
PU, unique properties

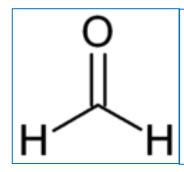
Already plans to ban this
chemical for use in the EU
(REACH)

DEHP, Bis(2-ethylhexyl) phthalate
Plasticizer, in the past commonly used
Banned for use in the EU market
(REACH)



Toluene

Solvent, commonly used **Already** restricted for use in consumer goods (0,1%) + lower TLV



Formaldehyde

present in binders and adhesives for wood, carpeting, and other products

In evaluations (CORAP) and labeled as a known human carcinogen

2. Why was there a change?



•	2000	(IMDS)	International	Material	Data System
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- 2005 (GADSL) global automotive declarable substance list
- 2006 (RoHS) or The Restriction of Hazardous Substances Directive 2002/95/EC
- 2008 (REACH) Registration, Evaluation, Authorisation and Restriction of Chemicals
- 2009 (CLP) Regulation for Classification, Labelling and Packaging
- ... More chemical frameworks in Korea, Malaysia, China, US, Japan,...

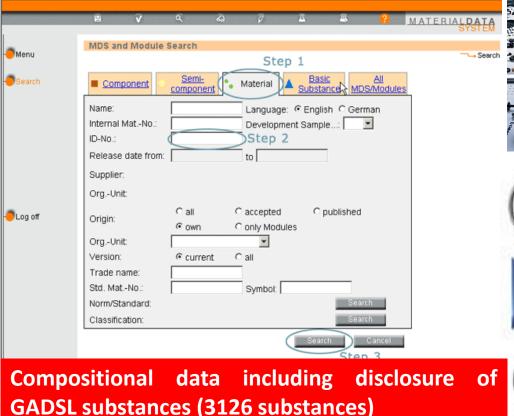
2.1 IMDS & GADSL (standard)





MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer

= Commercial standard no regulation























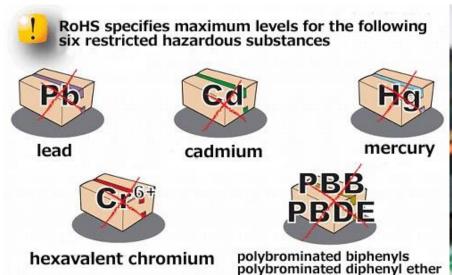


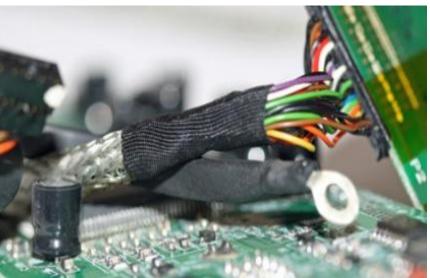


etc.

2.3 RoHS (Directive)







In electric and electronic devices

The RoHS II directive (2011/65/EU) enforced 2/12013.

- It requires periodic reevaluations that facilitate gradual broadening of its requirements to cover additional electronic and electrical equipment, cables and spare parts and the chemicals involved
- The CE logo now indicates compliance



2.4 REACH (Regulation)



REGISTRATION



- Obligation for industry
- Import or manufacture substance > 1 ton/ year
- Submitting dossier to government regarding uses and an assessment of the hazards and potential risks presented by the substance.
- Cost from 1000k€ to <1M (+ annual cost)

EVALUATION

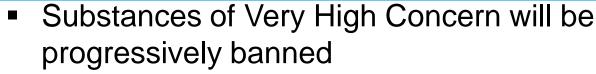


- Evaluation by Government and the Member States
- Examination of the quality of the registration dossiers and the testing proposals
- To clarify if a given substance constitutes a risk to human health or the environment.

2.4 REACH (Regulation)



AUTHORISATION





- The goal is that SVHC are properly controlled and that these substances are replaced by suitable alternatives
- 155 candidates and 31 forbidden
- Temporary authorization is granted for unique application cost 200k€ to 500k€

RESTRICTION

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3/10/2014



- Restrictions may limit or ban the manufacture, placing on the market or use of a substance.
- A restriction applies to any substance on its own, in a mixture or in an article, including those that do not require registration. It can also apply to imports.
- Today 60 restrictions in force

2.2 CLP (regulation)





Nitto



Updated Polytek® Safety Data Sheet [Page 1 Only]

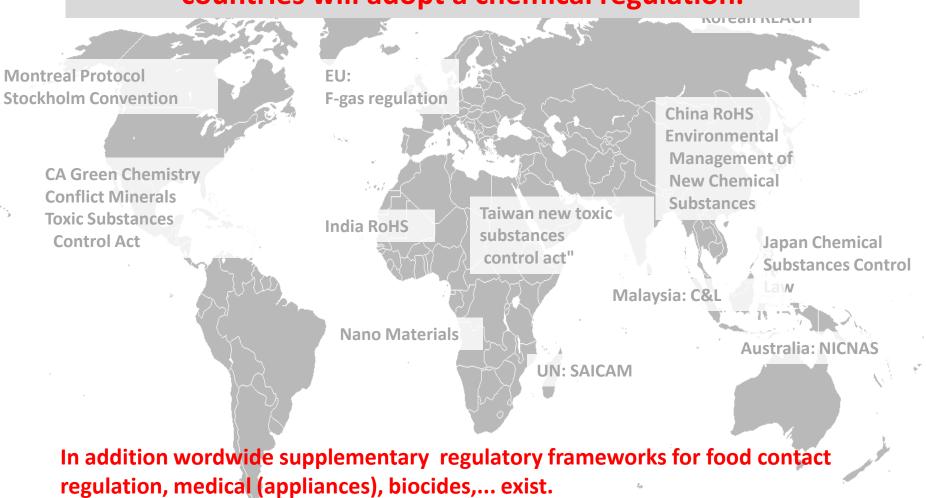
3 C&L notification the creation of a classification and labeling inventory.

Updated Polytek® Product Label [Poly 74-20 Liquid Rubber: Part B]

2.5 Global regulation



new (substance) will be banned or restricted. More countries will adopt a chemical regulation.



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3. Chemical regulation to be expected



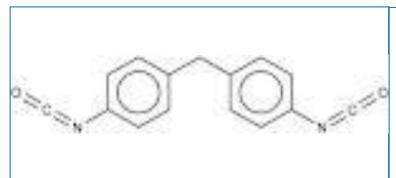
 EU-wide commitment to include all relevant currently known substances of very high concern (SVHCs) included in the Candidate List by 2020.

- This is part of the authorisation process of REACH to ban substances and promote substitution.
- Called SVHC roadmap



3. Chemical regulation to be expected





methylene diphenyl diisocyanate (MDI) crosslinker

REACH restriction + Danisch undesirable list Chemicals Management Plan (Canada) (cooperation with EU)

Registration of polymers



Strategy of European Commission, DG Environment for 2015, 2020 and beyond (Head of Unit: Chemicals Bjorn Hansen)

- ■2015: Ensure safety of Nano, minimisation of exposures to EDs, appropriate regulatory approaches to mixtures minimization of exposures to substances in articles.
- ■2018: Develop an EU Strategy for a non-toxic environment, that is conducive to innovation and the development of sustainable substitutes including non-chemical solutions

4. How can we cope?





PLIANCE

Output for customers:

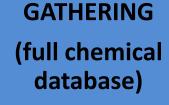
- Safety data sheets (or Safety instruction cards)
- 2. IMDS (GADSL)
- Standard declarations e.g. Candidate list,
 RoHSII,...
- Customer standards

Information to be gathered:

- Composition raw materials
- Composition finished goods

Output for compliance:

- Control of imported goods (registration, C&L notification)
- Automatic notification of SVHC and SDS for mixtures
- 3. Critical ingredient list
- 4. ...

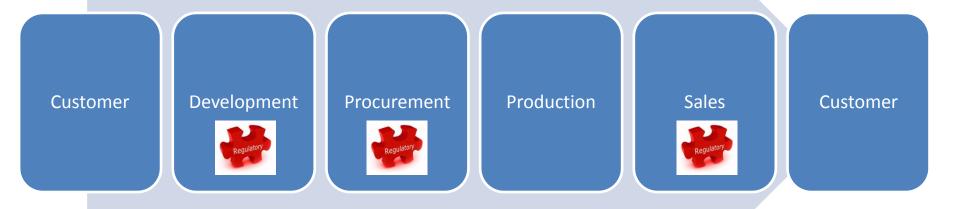


DATA-

4. How can we cope?









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How can we cope?



Regulatory affairs:

- Need to be handled in organisation by specialised department:
 - Seperate department (Regulatory Affairs, product stewardship, ...)
 - Part of another department
- A system with compositional data is required
 - Create critical ingredient list
- Needs to support development, business development, other related departments (e.g. Sustainable development)
- For international companies regulatory support of each region is important

Conclusion



- Chemical regulation is very complex today
- Regulatory affairs will increase in importance due to the increasing substances affected by chemical regulation
- It is clear regulatory issues can have impact on business
- To adapt the organisation to these requirements is key





