Update on EU REACH

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Content

• About ERA
• Overview of REACH and key obligations
• Latest developments
  - SVHCs
  - Authorisation
About ERA

- Founded 1920, ~120 employees
- Independent specialist engineering technical services
  - power systems and earthing
  - forensic engineering
  - design and materials
  - electrical testing
  - EMC design/testing
  - system safety assessment
  - regulatory compliance
About ERA

- We track regulatory issues
  - Substances
  - Disposal
  - Eco-design

- We advise
  - industry
  - policy makers
    - EU
    - UK government
    - enforcement bodies

November 12-13, 2014, Heathrow, UK
REACH
- overview and key obligations
REACH overview
- Regulation 1907/2006

- **Registration**
  - Chemical manufacturers
  - Chemical importers
  - Users of chemicals
  - Distributors of chemicals
  - Manufacturers and suppliers of hardware and components

- **Evaluation**

- **Authorisation of**

- **Chemicals**
REACH overview
- So what?

Chemical manufacturers will deal with it – REACH has nothing to do with us
REACH overview

- **Scope**

  - Scope - almost everything
    - Substances
    - Mixtures of substances
    - ‘Articles’
REACH overview

- **Obligations and impacts**

  • **Principal obligations**
    - Registration of chemicals
    - Only use of certain chemicals where authorised
    - Substance restrictions
    - Providing information and safe use
  
  • **Impacts**
    - Big increase in supply chain communications
    - Obsolescence of chemicals and products
What about military applications?

• There is no blanket exclusion of military applications
  – Member States can choose to make an exception
  – But this is very exceptional
  – No automatic mutual recognition

• Growing obsolescence issue
  – No “repair as produced” clause
  – Pressure to phase out irrespective
Latest developments
Authorisation and restriction – the process

Legal Requirements
- None but increasing pressure on supply chain, from customers, NGOs and investors
- Provide data (+notification)
- Only allowed in authorised “uses”

CoRAP list/Roadmap

Registry of intentions

Proposed

SVHC

Aut

Restriction

Lobby lists
### SVHC update

- **latest additions**

<table>
<thead>
<tr>
<th>SVHC</th>
<th>Main uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>cadmium sulphide</td>
<td>Bright yellow and in photo-electronics (solar cells etc.)</td>
</tr>
<tr>
<td>di-n-hexylphthalate (DnHP/DHP)</td>
<td>Plasticiser in cellulose esters and PVC.</td>
</tr>
<tr>
<td>C.I. Direct Red 28</td>
<td>None known.</td>
</tr>
<tr>
<td>C.I. Direct Black 38</td>
<td>None known but has been used in plastics and textiles</td>
</tr>
<tr>
<td>ethylene thiourea</td>
<td>Unlikely (vulcanisation agent)</td>
</tr>
<tr>
<td>lead di(acetate)</td>
<td>Coatings and paints, thinners, paint removers. Fillers, putties, plasters</td>
</tr>
<tr>
<td>trixylyl phosphate (TXP)</td>
<td>Fire retardant for some plastics, FR in hydraulic fluids (e.g. for industrial generators)</td>
</tr>
</tbody>
</table>
Obligations regarding articles

- Projected growth of SVHCs

<table>
<thead>
<tr>
<th>Year</th>
<th>No. substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>~</td>
</tr>
<tr>
<td>2010</td>
<td>~</td>
</tr>
<tr>
<td>2012</td>
<td>~</td>
</tr>
<tr>
<td>2014</td>
<td>~</td>
</tr>
<tr>
<td>2016</td>
<td>~</td>
</tr>
<tr>
<td>2018</td>
<td>~</td>
</tr>
<tr>
<td>2020</td>
<td>~</td>
</tr>
</tbody>
</table>

EC target: 136 actual 138

SVHCs-estimated total
SVHCs-intended
SVHCs-actual (not authorised)
SVHCs-proposed for authorisation
SVHCs-authorised

EC target 440+138
SVHC update

- **Roadmap**

• Evolution of the candidate list of SVHCs

• “SVHC Roadmap 2020”
  published 9 December 2013
  - Screening
  - Risk Management Option (RMO)
    Analysis

• Industry stakeholder visibility
  - Annual reports
  - Public ‘Activities Coordination Tool’
    (ACT) - PACT
  - Consultation?
SVHCs - Authorisation

- *Why is this important?*

- SVHCs placed on the Annex XIV list are not be allowed on the EU market (as chemicals) after a “sunset” date unless the “use” is authorised
  - This will directly affect:
    - Producers/importers of chemicals
    - Downstream users of chemicals
    - Producers of articles (if unable to use chemicals)
  - And indirectly:
    - The world market
- “Uses” include
  - storage, transfer between containers, processes and disposal
- But authorisation is not be required by importers and users of articles that contain these substances as integral parts which are made outside the EU
SVHCs
- Authorised and planned

- So far, 22 substances are listed in Annex XIV

<table>
<thead>
<tr>
<th>Substance</th>
<th>Uses</th>
<th>Sunset date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEHP</td>
<td>Plasticiser</td>
<td>21/02/2015</td>
</tr>
<tr>
<td>DBP</td>
<td>Plasticiser</td>
<td>21/02/2015</td>
</tr>
<tr>
<td>HBCDD</td>
<td>Flame retardant in HIPS</td>
<td>21/08/2015</td>
</tr>
<tr>
<td>MDA</td>
<td>Epoxy resin hardener</td>
<td>21/08/2014</td>
</tr>
<tr>
<td>Most chromates</td>
<td>In plating baths for anti-corrosion finishes</td>
<td>21/09/2017</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>Passivation, hard chromium plating</td>
<td>21/09/2017</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>Metal degreasing</td>
<td>21/04/2016</td>
</tr>
<tr>
<td>(Cobalt compounds)</td>
<td>Surface treatment-hardening, anti-corrosion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; being considered for restriction instead</td>
<td></td>
</tr>
</tbody>
</table>

- More are proposed for inclusion, e.g.
  - Refractory ceramic fibres – MAJOR substitution problem
SVHC update

- **Authorisation requests**

  - **Bis(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP)**
    - **Rolls-Royce**
      - DEHP – Request viewed favourably by Risk Assessment (RAC) and Socio-economic Analysis (SEAC)
    - **Further requests**
      - DEHP – formulation of polymer feed-stocks (virgin sources and recycles materials), manufacture of capacitors and lambda sensors and as rocket propellants.
      - DBP – absorption solvent for maleic anhydride, propellants, speciality paints for rocket motors and missiles and manufacture of capacitors and lambda sensors.
Conclusions

• REACH is continuing to drive changes in substance use globally
  - Early engagement is crucial
  - Obsolescence a growing issue

• So
  - Work with others where possible
  - Keep up to date
Thank you!
Any questions?

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