

The Swedish Chemicals Agency

How we work with chemicals the indoor environment

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Emerging Pollutants in Non-industrial Indoor Environments

Oslo, NILU, 8 June 2015

The Swedish Chemicals Agency

- Supervisory authority under the Ministry of the Environment and Energy
- Development and implementation of EU-wide and national chemical legislation
- Processes applications for approval of pesticides and biocides
- Other risk limiting measures such as sector dialogues and support for trade and industry
- Keep products register and statistics of chemical use
- Enforcement of legislation on chemical products

The Swedish Chemicals Agency

- Assignment from the Swedish Government
- “Prepare and implement an action plan for a non-toxic everyday environment”
- Reduce the risks in everyday life
- Protect the children better
- How do we accomplish that?



Action plan for a toxin free everyday environment 2015-2020

Major challenges

- Hazardous substances in articles are a growing problem
- Protect foods and drinking water
- Protect children and young people

Action plan for a toxin free everyday environment 2015-2020

Solutions

- National action programs for Perfluorinated substances, Endocrine disruptors and Sensitizing substances
- Better knowledge about hazardous substances
- Continued focus on the EU and international activity
- Enforcement of consumer articles
- Develop the dialogue with trade and industry

National action program for perfluorinated substances

- High levels of PFAS found in ground water in several Swedish local counties
- Mainly perfluorooctane sulfonate (PFOS) and perfluorhexansulfonat (PFHxS)
- Contaminated water have been found close to all large airports (Arlanda, Landvetter, Malmö Airport) and around many small and military airports.
- Film-forming fire foam (AFFF) is a suspected source

Kemikalier från brandskum i dricksvattnet

Publicerat måndag 10 februari 2014 kl 12:01

 Barn och unga mest känsliga
(1:41 min)



Enligt Livsmedelsverket påverkas kroppens organ på sikt. Foto: Christina Olsson/

Svenskt dricksvatten kan innehålla farliga kemikalier påverkar kroppens inre organ.

Therese, 20, oroas över gifter i vattnet



Giftiga ämnen hittade i 34 vattenverk

▼ GIFTSKANDALEN I BOTKYRKA 2012-08-13 15:41

Så giftigt är vattnet i Tullinge

Gift i vattnet har tvingat kommuner stoppa vattnet

17 mars 2014



Vågar vi dricka kranvattnet?

Höga värden av giftet PFOS har uppmätts i dricksvattnet på många platser i lan allvarliga hälsoriskerna tillsammans med den stora spridningen gör att forskare talat om den "allvarligaste kemikalieolyckan i Sverige i modern tid".



7 oktober 2014 kl 01:26, uppdaterad: 13 oktober 2014 kl 07:25

BRÄNNPUNKT | MILJÖGIFT

Farliga gifter kan finnas i dricksvattnet

Publicerad 2014-02-10 07:31







Regeringen vill utreda halterna av farliga ämnen i dricksvatten

Torsdagen den 29 januari 2015, kl. 16:40

Miljöminister Åsa Romson vill under de kommande åren kartlägga utsläppen av hög-flourerande ämnen i Sverige. Det är en grupp kemikalier som flitigt används i ett flertal olika sammanhang, men som kan vara skadliga för både människa och miljö. I bland annat en [debattartikel](#) skriver Romson om att regeringen nu gett flera myndigheter i uppdrag att begränsa spridningen av de farliga kemikalierna.



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National action program for perfluorinated substances

- Goal - to protect our waters
- Increase the knowledge and decrease the use
- Coordinate and support all national activities
- Network with authorities, scientists, water producers, local counties etc.
- Gather, increase and spread knowledge

National action program for perfluorinated substances

- Four subprojects
 - Map uses and presence of alternatives (june 2015)
 - Suggest national and EU regulations (july 2017)
 - Dialogue with companies about voluntary substitution
 - Promote an action plan in the EU
- Present for the government in september 2017
- We need more effect studies and biomonitoring studies on short chained perfluorinated substances

Better knowledge about hazardous substances

- Support health-related monitoring activities
 - Monitoring of childrens chemical exposures in Stockholm
 - Samples from ~100 children from 30 preschools
 - Dust, urine, blood, hand wipes, complementary survey
 - E.g. Phtalates, Bisphenols, triclosa, PAHs, pesticides
 - Similar activities in Uppsala and Örebro
- We need more studies on chemicals in indoor environment
- We need more information about exposure sources

Continued focus on the EU and international activity

- Propose substances for regulation under REACH
- Substances of concern for children and consumers
- Focus on CMR, endocrine disruptors, sensitizers
- Materials and articles of concern
 - Textiles
 - Construction products
 - Toys and child care articles

A selection of government assignments



Chemicals in textiles



Reprotoxic phthalates



Chemicals in construction products

Chemicals in textiles

2013: Identification of hazardous substances in textiles

2014: Investigations of risks from chemicals in textiles

2015: Regulatory actions on chemicals in textiles

The assignments has lead to...

- Proposal of restriction of CMR substances in textiles
- Investigating the possibilities to introduce labelling requirements

We need more information about...

- The presence of hazardous chemicals in textiles
- Emissions and exposure
- Is there a problem for human health and how big is it?

Strategy for phasing out reprotoxic phthalates

Assignment

- Investigate uses of phthalates in consumer articles
- Investigate alternative substances and materials
- Promote voluntary substitution – industry dialogue
- Investigate regulatory actions

Proposals

- EU: Further restriction of DEHP, DBP, BBP and DIBP in specific articles and electronics
- National limitations of emissions from building materials
- Public procurement criteria for the health care sector

National regulations in construction products

- Investigate the need for national restrictions on hazardous substances in construction products
 - Assess the risks
 - Propose restrictions
 - Carry out an impact assessment
- Focus on: phtalathes, volatile substances with carcinogenic, mutagenic, reprotoxic and sensitizing properties
- We need more data on emissions from construction materials, VOCs and non VOCs

Reports

- <http://kemi.se/Documents/Publikationer/Trycksaker/Rapporter/report-4-15-phatalates.pdf>
- <http://kemi.se/Documents/Publikationer/Trycksaker/Rapporter/Report6-14-Chemicals-in-textiles.pdf>
- <http://kemi.se/Documents/Publikationer/Trycksaker/Rapporter/Rapport-3-13-textiles.pdf>
- <http://kemi.se/Documents/Publikationer/Trycksaker/Rapporter/Rapport8-13.pdf>