

For the future of our environment

POPs – LEGISLATION AND WASTE MANAGEMENT

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What we will be covering ...

What, Where and Why?



Why these wastes need to be managed differently



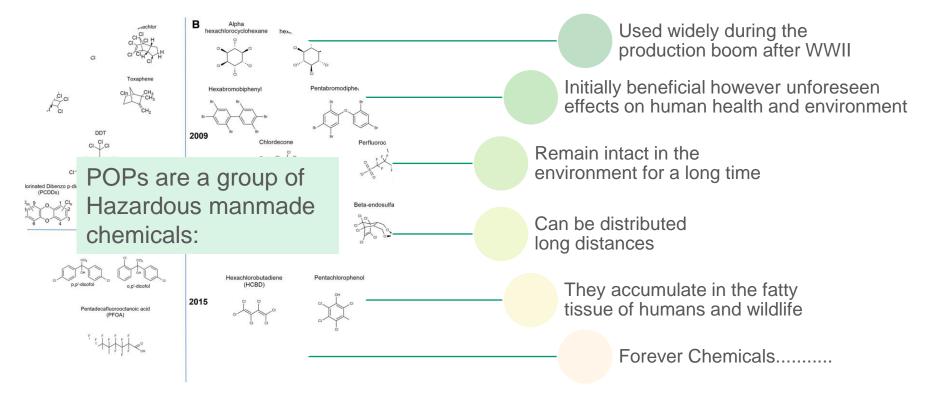
SEPA POPs Workstream



Managing POPs contaminated waste

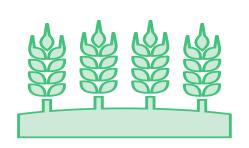


What Are POPs?





POPs Waste Streams - Current



Pesticides - DDT, Aldrin, Eldrin, Mirex, etc.

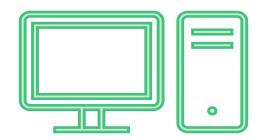


PCBs - Transformers, Capacitors, Plastics, Paints, etc.



Dioxins and Furans - Industrial processes, waste treating, uncontrolled combustion, etc.





WEEE - POP BDEs



WUDS - POP BDEs

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POPs Waste Streams - Future









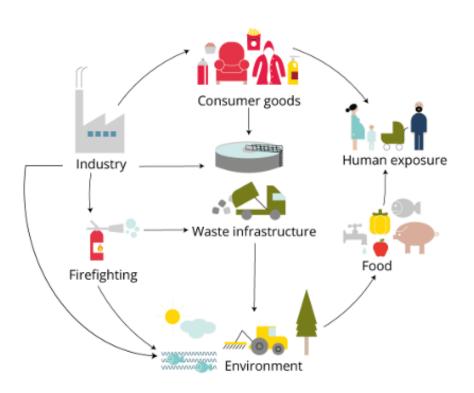
Non-Stick Cookware

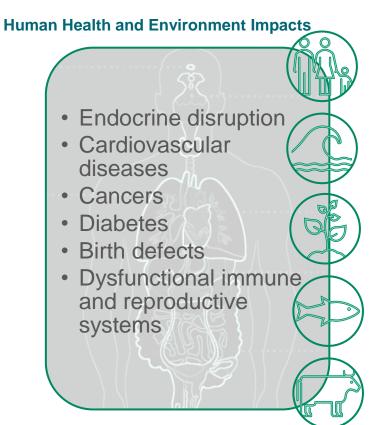


Waterproof Textiles



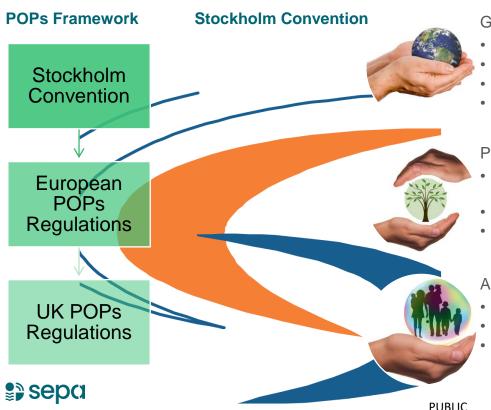
Why Do POPs Matter?







POPs - Forever Chemicals and Your Waste



Global Treaty

- Protect human health and the environment from POPs
- Adopted in 2004
- 152 Signatories
- UK is one of the original members

Parties must take measures to:

- Eliminate the production and use of chemicals listed in Annex A
- · Restrict the production and use chemicals listed in Annex B
- Reduce the unintentional releases of chemicals listed in Annex C

Additional duties on signatories include:

- Identification and management of stockpiles
- Identification of competent authority
- Reporting, etc.

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UK POPs Regulations – summary of key duties

Reg. 5: Stockpile

- Permitted uses for some POPs wastes (transition) - Notification to CA
- When no longer permitted, stockpile is a waste.

Reg. 7: Waste Management & Annex V

• Storage, Movement, Treatment and Disposal restrictions

Reg. 9: Implementation Plan

 UK is required produce a National Implementation Plan detailing past, present and future commitments under the convention.

Reg. 19: Competent Authority (CA)

- MS to designate a CA
- SEPA are the CA for Scotland

Annexes I to IV

- List of POPs, POPs subject to restrictions and POPs subject to release reduction provisions
- Waste Management controls incl. disposal and recovery options



Regulation 7 - Waste Management

Avoid Contamination

 Producers/Waste Holders to avoid where feasible contamination of POPs or POPs contaminated waste with other wastes (Reg. 7(1))

Treatment Standard

 Disposal/Recovery must destroy or irreversibly transform POPs content (Reg. 7(2))

Treatment Limitations

 Disposal or recovery operations that may lead to recovery, recycling, reclamation or re-use on their own of POPs is prohibited (Reg. 7(3))

Limited Derogation

 Derogation allowing disposal to permanent storage under certain conditions (Reg. 7(4))

Traceability

 Member States to ensure the control and traceability of waste containing POPs or contaminated by POPs (Reg. 7(6))



Managing POPs Contaminated Waste (1)

Check if your waste contains POPs

- MSDS and/or Manufacturer Information
- Chemical Analysis
- XRF testing
- Refer to Agency guidance
- If you don't know assume POPs!!!!

Classify your waste correctly

- Waste holders have a duty to describe their waste fully, to ensure that it is handled appropriately
- EWC and description must reflect presence of POPs
- SWCN and WTN should detail likely POPs present
- Appropriate EWC may not always be Hazardous!!!

Waste holders have a duty of care to ensure the person receiving the waste is authorised to do so!



Managing POPs Contaminated Waste (2)

Collection

- Separate collection may not be feasible.
- Co-collection allowed as long as POPs WUDS are:
 - not damaged or mixed
 - segregated during and after transfer
- Onboard segregation can permanent or temporary and must be appropriate.

Duty to avoid contamination

- Must not mix with other wastes
- Any 'Mixed Waste' is a POPs Waste unless:
 - POPs items can be removed undamaged
 - Further contamination is avoided

Storage

- Storage/Sorting should not damage the waste
- If mixed with non-POPs wastes the waste mass may be deemed POPs waste
- POPs contaminated waste must be destroyed even if the mixing has diluted the POPs concentration



Managing POPs Contaminated Waste (3)

Treatment (Removing POPs)

- POPs waste can go to a suitably authorised treatment plant that can separate the items, components, or materials containing POPs from the other waste or materials
- •The separated items, components, or materials containing the POPs must be destroyed
- POPs waste must not be mixed with other waste before or during separation
- Processes must control and mitigiate the release of POPS

Treatment (Recovery)

- You can recover waste containing POPs where the recovery process destroys the POP (ex. incineration with energy recovery)
- Operator can treat the waste to remove or separate materials that contain POPs from those that do not
- •Any POPs or POPs wastes must be destroyed
- •Any seperated non-POPs material can be recycled or recovered
- Processes must control and mitigiate the release of POPS

If receiving waste ask for evidence to confirm presence of POPs.



Managing POPs Contaminated Waste (4)

Landfill

- Landfill of POPs wastes has been prohibited since 2004
- •WUDS POPs:
- •Deca BDE 2017(CoP 8)
- •Penta BDE & Tetra BDE 2009 (CoP 4)
- •HBCD 2015 (COP 7)
- Ban applies regardless of when POPs are discovered in a waste stream!
- No derogation for use in contingency!

Preparation for Destruction

- POPs contaminated WUDS can be shredded before destruction (only if it is being sent for incineration and EfW)
- Abatement, storage and transportation requirements apply (see quidance)
- You should take reasonable steps to prevent, contain and collect any releases of POPs contaminated material or dust.

Destruction and Irreversible Transformation

- Viable Options:
- Hazardous Waste Incinerator
- Municipal Waste Incinerators
- Cement Kilns



Re-use of Items containing POPs

Step 1 – Is your item a waste item? No The Stockholm convention only waste items to be destroyed If there is certainty of re-use for your item then it is generally not Item can be re-used considered to be waste and therefore can be re-used (e.g. Furniture) Yes Step 2 – Does your waste contain POPs above threshold limits? No Seek product information Item can be Test the item prepared for re-use Use a proxy – date of manufacture, materials used, etc. (e.g.WEEE) Yes RE-USE NOT POSSIBLE – ITEM MUST BE DESTROYED See separate SEPA guidance on managing POPs wastes Item can only be exported for destruction (not for re-use or recycling)



What have SEPA been doing?

- Chemicals Strategy
- SEPA working groups
- Engagement with DAs and other UK Environment Agencies
- PCBs: maintenance of PCB register, ongoing engagement with Scottish Government to ensure 2025 deadline is met, cohort methodology ...
- Guidance:
 - WEEE: Engagement with industry, development and publication of Classification guidance, developing Re-use position...
 - Fire Fighting Foams: Engagement with industry, development and publication of Classification guidance, collation of stockpile information
 - Waste Upholstered Domestic Seating (WUDS): Engagement with industry, publication of guidance, tRPS for Shredding, tRPS for Storage, SEPA officer pack, FAQs, developing re-use position, etc.



Thank you

Contact details

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