# Prioritisation of Hazardous Substances within OSPAR: the DYNAMEC process

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## **New DYNAMEC Manual**

- Dynamic Selection and Prioritisation Mechanism for Hazardous Substances (revised 2006)
- OSPAR Publication 256-2006
- OSPAR has developed this mechanism to identify hazardous chemicals and to prioritise those of highest concern for immediate action

#### DYNAMEC

- This selection and prioritisation mechanism has 3 steps:
- 1.Properties of persistence, bioaccumulation and toxicity (P, B & T)
- 2.Ranking according to actual occurrence and effects in the marine environment
- 3. Selection of substances from the ranked list judged to require priority action by OSPAR

# P, B & T criteria

- Persistent: half-life of 50 days or more
- Bioaccumulative: log Kow >= 4
  or BCF >= 500
- Toxic: Aqueous acute L(E)C50 =< 1 mg/l long-term NOEC =< 0.1 mg/l</li>
  Mammalian: carcinogenic, mutagenic or reproductive toxicity; chronic toxicity

### Prioritisation

- Ranked lists taken forward
- Information on calculated exposures and monitored concentrations (water and sediment) taken into account
- Advice given to Hazardous Substances Committee
- Revisions to list of Chemicals for Priority Action