

European Waste Classification

Dr Chris Hall Technical Advisor 12 April 2012



Legislation

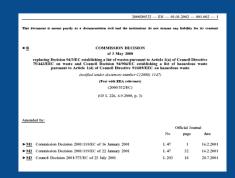
- Waste Framework Directive 2008/98/EC
 - Defines waste

- DIRECTIVES

 DIRECTIVE 2008/98/RC OF THE EUROPEAN PARILLAMENT AND OF THE COUNCIL of 19 November 2008

 on water and repulsing certain Directives

 (Text with EEA relevance)
- Defines hazardous waste ... points to the List
- List of Waste Decision 2000/532/EC
 - List
 - Use of List







Rules for using the EWC

- 2, 4 and 6 digit entries important
- Chapter preference rules
- Waste with an asterisk (*) is hazardous
- Some entries automatically hazardous or non-hazardous
- Some entries require assessment
- Only specified alloys are hazardous



Importance of 2, 4, 6 digits

20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS.

20 01 Separately collected fractions (except 15 01)

20 01 01 paper and cardboard



Another example

06 01 01* sulphuric acid and sulphurous acid

10 01 09* sulphuric acid

11 01 05* pickling acids

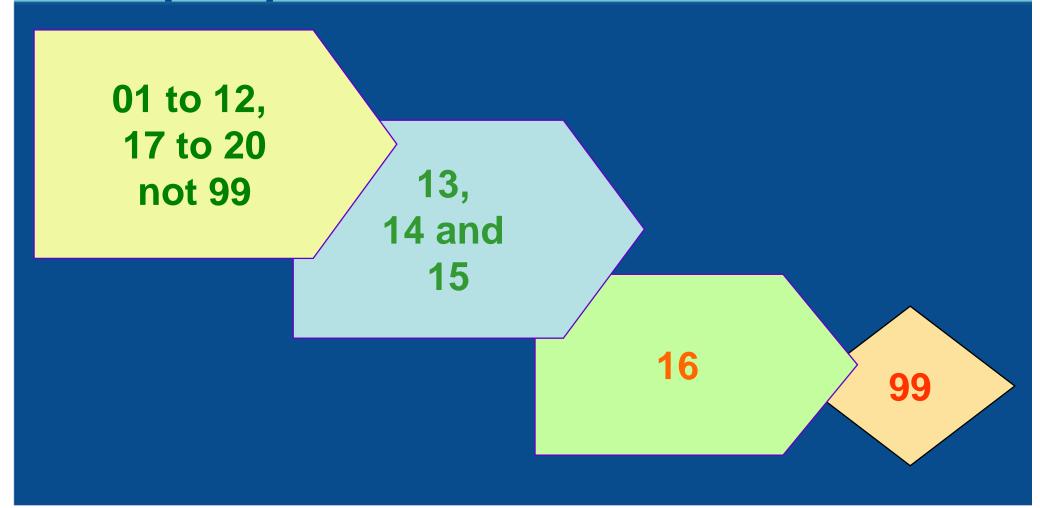
11 01 06* acids not otherwise specified

16 06 06* separately collected electrolyte from batteries and accumulators

20 01 14* acids



Chapter preference





Types of entry

"Absolute" non-hazardous for example mixed municipal waste

"Mirror" non-hazardous, for example soils without hazardous substances

"Absolute" hazardous, for example lead acid batteries

"Mirror" hazardous,
for example
soils containing hazardous
substances



Why does it matter?

- No hazard assessment required for "absolute"
- Entry is hazardous or entry is non-hazardous

Simple, quick

- Hazard assessment required for "mirror"
- Assessment made and the relevant "mirror" chosen
- Complex, time-consuming





Hazard assessment

- Fifteen hazardous properties
 - chemicals (H1-8, H10-14)
 - infectious agents (H9)
 - waste specific (H15)
- Testing or threshold assessment
 - DSD and DPD based
 - Uses risk phrases
 - Annex VI to CLP















Example assessment

Municipal waste incinerator bottom ash (IBA)

19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE

19 01 wastes from incineration or pyrolysis of waste

19 01 11* bottom ash and slag containing dangerous substances

19 01 12 bottom ash and slag other than those mentioned in 19 01 11



IBA composition (headline substances)

рН	up to 12.8	potential H4
Calcium	up to 131,000 mg/kg	potential H4
Copper	up to 5,000 mg/kg	potential H14
Lead	up to 2,200 mg/kg	potential H14
Zinc	up to 4,000 mg/kg	potential H14
Nickel	up to 760 mg/kg	potential H13

Could be H4 Irritant, H13 Sensitising, H14 Ecotoxic but...

- acid/alkali reserve
- metal speciation



Proposals for change

- Chemicals legislation changing (GHS / CLP)
- Proposals to change List
- Working group from 2009
- Difficulties impact
- List changes particularly difficult
- Vote 2012



UK situation – hazardous waste data

- 2.1 million consignments
- 2.3 million wastes
- 173,000 registered and 81,000 exempt producers
- 2,300 consignees sent 7,500 returns
- 3.8 million tonnes hazardous waste managed

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