

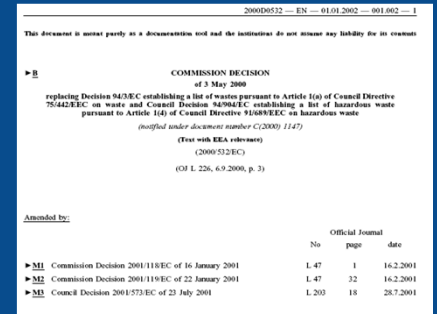
European Waste Classification

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Legislation

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

01 to 12,
17 to 20
not 99

13,
14 and
15

16

99

Types of entry

“Absolute” non-hazardous
for example
mixed municipal waste

“Absolute” hazardous,
for example
lead acid batteries

“Mirror” non-hazardous,
for example
soils without hazardous
substances

“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)

pH	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

