

**NB: Unofficial translation; legally binding texts are those in Finnish and Swedish  
Ministry of the Environment, Finland**

**Government decree on waste  
(179/2012)**

**Chapter 1 – General provisions**

**Section 1  
Definitions**

For the purposes of this Decree:

- 1) *separate collection* means the collection of waste where waste is kept separately by type and nature so as to facilitate recycling, other types of recovery or other specific treatment;
- 2) *oil waste* means any lubrication or industrial oil consisting completely or partly of mineral oil or synthetic oil, which has become unfit for the use for which it was originally intended, or any other waste-containing oil;
- 3) *biowaste* means biodegradable food and kitchen waste from households, restaurants, caterers and retail premises, comparable waste from food processing, and biodegradable garden and park waste;
- 4) *construction and demolition waste* means waste from new construction and repairs and demolition of buildings or other fixed structures, civil engineering work or other corresponding construction;
- 5) *municipal wastewater sludge* means the sludge from wastewater treatment plants treating municipal wastewater or other wastewater comparable to municipal wastewater in quality, however not sludge in cess pools and septic tanks nor other sludge from the domestic wastewater treatment system on a property.

**Section 2  
Operations for the recovery and disposal of waste**

(1) Annex 1 to this Decree contains a list of the operations which constitute ‘recovery of waste’ as referred to in section 6(1)(15) of the Waste Act (646/2011). Even operations other than those mentioned in the list constitute recovery of waste if they meet the requirements laid down in the aforementioned paragraph of the Waste Act.

(2) Annex 2 contains a list of the operations which constitute ‘disposal of waste’ as referred to in section 6(1)(16) of the Waste Act. Even operations other than those mentioned in the list constitute disposal of waste if they meet the requirements laid down in the aforementioned paragraph of the Waste Act.

### **Section 3 Hazardous properties of waste**

Provisions on the hazardous properties of waste, referred to in section 6(1)(1) of the Waste Act, and the limit values applicable in interpreting them, are laid down in annex 3.

### **Section 4 List of waste and hazardous waste**

Provisions on the list of the most common types of waste and of hazardous waste (*list of waste*) are laid down in annex 4.

### **Section 5 Waste generated in holiday homes**

Waste from summer cottages intended mainly for the owner's own use, leased holiday cottages and timeshare holiday accommodation, and other corresponding vacation homes, constitutes waste generated in holiday homes, as referred to in section 32(1)(1) of the Waste Act. However, waste generated in a holiday village providing hotel-like services is not regarded as such waste.

### **Section 6 Application of the Waste Act to Defence Force operations**

Subject to the conditions laid down in section 4(1) of the Waste Act, the Waste Act shall not apply to the following operations of the Defence Forces:

- 1) operations of command centres engaged in surveillance and securing of territorial integrity and operations of surveillance and communication stations;
- 2) industrial, production, depot and repair workshop operations;
- 3) operations related to storage of national emergency supply materials;
- 4) military aviation and related operations;
- 5) vessel and stronghold operations and operations performed in naval ports;
- 6) experimental and research operations;
- 7) shooting and blasting operations;
- 8) military exercise and training operations;
- 9) operations related to serious disturbances in normal conditions.

## **Chapter 2 – General requirements concerning the organisation of waste management**

### **Section 7 Packing and labelling of waste and information to be given on waste**

Waste shall be packaged and labelled as necessary, and information shall be provided on it in such a way that the storage and transport of waste do not pose a hazard or harm to human health or the environment and that treatment may be arranged for the waste in accordance with its quality.

## **Section 8**

### **Packaging for hazardous waste**

(1) Packaging for hazardous waste shall be secure and capable of being securely reclosed and must withstand the stress and load of normal use and movement, and of normal storage conditions. The packaging materials and the seal must not react with the hazardous waste in a way which can pose a hazard or harm to human health or the environment.

(2) Packaging for hazardous waste complies with the requirements laid down in subsection 1 if it meets the requirements laid down in Article 35(1) of Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, hereinafter *the CLP regulation*, on packaging containing hazardous substances or mixtures.

## **Section 9**

### **Labelling of hazardous waste**

(1) The name of the waste holder and the waste itself shall be marked on hazardous waste packaging, together with any information and warnings necessary for the safety and appropriate organisation of waste management.

(2) When hazardous waste possesses any of the hazardous properties H 1–8, 10, 11 or 14 listed in annex 3, the substances contained in the waste that cause the waste to display the main hazardous properties must also be marked on the packaging and it must include warning labels in accordance with the Ministry of Social Affairs and Health Decree on chemical classification principles and labelling (807/2001). If the composition and properties of the waste do not fundamentally differ from the substance which is the main source of the waste, and if the waste is stored in the original packaging, the existing warning labels on the packaging can be used, provided that they are supplemented by information required under subsection 1.

(3) If the composition of the hazardous waste cannot reasonably be clarified, the packaging shall include the labelling “Myrkyllistä jätettä, koostumus tuntematon. Farligt avfall, sammansättningen obekant” (Hazardous waste, composition unknown). In such a case, the warning label must contain the danger symbols ‘T’ (toxic) and ‘F’ (readily flammable) and the R phrases 11–23/24/25 and S phrases 1–3/7/9–36/37/39.

(4) The labels referred to in subsections 2 and 3 above need not be included on the packaging of hazardous waste if it is used solely for transporting the waste and has been labelled as required by the provisions and regulations issued concerning the transportation of dangerous substances, nor on packaging stored in a reception facility which is properly marked for purposes of safety.

## **Section 10**

### **Collection of waste**

(1) When organising the collection of municipal waste and comparable waste, the property holder, municipality, waste holder, producer, distributor and other party must ensure the following:

- 1) free access to the waste reception point and safe loading of waste for removal;
- 2) at the reception point, a sufficient number of lidded containers, deep collection containers embedded in the ground, dumpsters or other waste containers suitable for the waste types collected;
- 3) that the use and emptying of waste containers pose no danger of injury to the users or to those emptying them and no other hazard or harm to human health or the environment;
- 4) that a clearly distinguishable label is affixed to the lid or front side of the waste container, with information on the type of waste collected in each container, and the contact information of the company or organisation responsible for the collection;
- 5) that the waste container is emptied sufficiently often to leave enough room for the accumulated waste in the container, to allow the container to be kept closed at all times and to ensure that the waste does not cause contamination of the environment or littering or odours or other hygienic harm;
- 6) that the waste container is kept in good condition and cleaned sufficiently often to ensure that the collection causes no harm or hazard to human health or the environment;
- 7) that the reception point and its surroundings are cleaned of litter caused by waste collection, in accordance with chapter 8 of the Waste Act.

(2) Anyone delivering waste to the reception point is liable for ensuring that waste is placed in the waste container reserved for it and that the container is not damaged or does not become unnecessarily dirty due to the waste.

(3) The organiser of the reception point and waste carrier must ensure the timing of waste loading and other transport arrangements in such a way that said arrangements cause no nuisance, due to noise or other corresponding disturbances, to those residing in the vicinity of the reception point.

(4) The requirements provided above in subsections 1 to 3 shall be complied with, as applicable, in the collection of waste other than municipal and comparable waste.

## **Section 11**

### **Transport of waste**

Waste shall be transported in secure packaging or by closed means of transport. Waste may also be transported covered or in another manner, if it is possible to ensure that no waste is released into the environment during loading or transport, and that the waste does not pose an accident risk.

## **Section 12**

### **Obligations concerning the sorting and other treatment of waste**

- (1) An operator engaged in the sorting or other treatment of waste on a professional basis or at an installation, must organise preparation of the waste for reuse, recycling or other recovery in accordance with section 8 of the Waste Act, so that the smallest possible portion of the treated waste ends up in disposal.
- (2) Anyone recovering waste by putting or spreading it on the ground must use waste only in the amounts necessary for the purpose of levelling the soil structure and enhancing its bearing capacity and durability, or in a way that otherwise corresponds as far as possible to the need in question.

## **Section 13**

### **Closure of a waste treatment facility or site**

- (1) After the termination of waste reception, a waste treatment facility or site, or part thereof, must, without delay, be rendered into such a condition that it does not pose a hazard or cause harm referred to in section 13(2) of the Waste Act.
- (2) Further provisions on obligations after the termination of activity subject to an environmental permit are laid down in section 90 of the Environmental Protection Act (86/2000). Further provisions on closure of landfills are given in the Government decision on landfills (861/1997) and closure of a waste area for extractive waste in the Government decision on extractive waste (379/2008).

## **Chapter 3 – Special requirements concerning certain waste**

### **Section 14**

#### **Separate collection and recycling of municipal waste**

- (1) The operator of an industrial, service or other business activity, any other waste holder, and municipalities are obliged, subject to the conditions laid down in sections 8, 13 and 15 of the Waste Act, to organise the separate collection and recycling of paper, cardboard, glass, metal, plastic and biowaste for which the operator is responsible.
- (2) Provisions on the producer's obligation to organise the separate collection and recycling of discarded paper products and paper, cardboard, glass, metal and plastic packaging are laid down in chapter 6 of the Waste Act and the provisions issued thereunder.
- (3) The aim is that, by no later than from 1 January 2016, the measures referred to in subsection 1 and 2 account for a minimum of 50 per cent by weight of municipal waste recycled.

### **Section 15**

#### **Reducing the quantity and harmfulness of construction and demolition waste**

A party engaging in a building project must ensure that the project is planned and implemented so that, in accordance with section 8 of the Waste Act, all usable items and substances are reclaimed and re-used and that the activity generates as little construction and demolition waste as possible, and that this waste is as harmless as possible.

### **Section 16**

#### **Separate collection and recovery of construction and demolition waste**

(1) The holder of construction and demolition waste shall organise separate collection of waste so that the highest possible proportion of the waste can be prepared for re-use, or otherwise recycled or recovered in accordance with section 8 of the Waste Act. Subject to the preconditions provided in section 15 of the Waste Act, separate collection must in this case be organised for at least the following waste types:

- 1) concrete, brick, mineral tile and ceramic waste;
- 2) gypsum-based waste;
- 3) non-impregnated wood waste;
- 4) metal waste;
- 5) glass waste;
- 6) plastic waste;
- 7) paper and cardboard waste;
- 8) soil and waste rock material.

(2) Provisions on the producer's obligation to organise separate collection and recycling of discarded packaging are laid down in chapter 6 of the Waste Act and the provisions issued thereunder.

(3) The aim is that, by 2020, the measures referred to in subsection 1 and 2 account for a minimum of 70 per cent by weight of construction and demolition waste recovered by means other than energy recovery or reprocessing into fuel, excluding soil and rock excavated from the bedrock or ground, and hazardous waste.

(4) Provisions on keeping hazardous waste separate and a ban on the mixing of hazardous waste are laid down in section 17 of the Waste Act.

### **Section 17**

#### **Oil waste**

(1) Subject to the preconditions provided in sections 15 and 17 of the Waste Act, the waste holder shall organise the separate collection of different types of oil waste.

(2) Treatment of oil waste must be organised in accordance with sections 8 and 13 of the Waste Act. Additional provisions on the incineration of oil waste are given in the Government Decree on the incineration of waste (362/2003) and section 6 of the Government decision on management of oil waste (101/1997).

## **Section 18**

### **Monitoring the quality of municipal wastewater sludge**

The facility producing municipal wastewater sludge is responsible for ensuring that the quality of the sludge is specified in accordance with paragraph 1 of annex 5.

## **Section 19**

### **Asbestos waste**

(1) The waste holder must ensure that asbestos waste generated in operations is collected and transported, separately from other waste, for treatment without delay. Tightly closed durable packaging must be used for the storage and transport of asbestos waste, and package labelling must indicate that the packages contain asbestos. To prevent breakage, the containers must be handled cautiously and carefully.

(2) Provisions on the treatment of asbestos at landfills are given in the Government decree on landfills.

## **Chapter 4 – Keeping a record of waste, the shipping document and information to be provided to the authorities**

### **Section 20**

#### **Records kept by the waste producer**

(1) A record shall be kept, in chronological order, of any waste generated in the activities referred to in section 118(1)(4) of the Waste Act and of hazardous waste generated in the activities referred to in paragraph 2. Insofar as possible, records shall be kept by the place of business in question.

(2) Such records must include the following information:

- 1) the quantity of waste;
- 2) the waste entry in accordance with the list of waste and description of the type of waste and essential information on the properties and composition of the waste;
- 3) in a case of hazardous waste, the main hazardous properties in accordance with annex 3;
- 4) when the waste is delivered to another location for treatment, the name and contact information of the consignee and waste carrier and the method of waste treatment.

(3) The amount of specific waste, as referred to in section 119(1) of the Waste Act, shall be given as the total amount of waste and the amount of waste typical for the activities in question, in relation to a factor that, insofar as possible, describes the extent of said activities. Depending on the line of business, such factors include the number of person-years, net sales, production volume, number of inpatient days, number of overnight stays, and area of business premises.

**Section 21**  
**Keeping of records on municipal wastewater sludge and information to be provided to the supervisory authorities**

(1) In addition to the provisions laid down in section 20 on records kept by the waste producer, the facility producing municipal wastewater sludge shall keep a record of information concerning the quality of the sludge, determined in accordance with section 18.

(2) By the end of February each year, the facility producing municipal wastewater sludge shall provide the supervisory authorities with the information referred to in annex 5, paragraph 2, on the sludge and the use thereof.

**Section 22**  
**Records kept by the operator of waste treatment operations**

(1) Records in chronological order shall be kept of waste treated in activities referred to in section 118(1)(3) and (4) of the Waste Act. Insofar as possible, such records shall be kept by place of business.

(2) The records must include the following information:

- 1) the quantity of waste;
- 2) the waste entry in accordance with the list of waste and description of the type of waste, and essential information on its properties and composition;
- 3) in the case of hazardous waste, the main hazardous properties in accordance with annex 3;
- 4) if the waste is transported from another location, the name and contact information of the previous waste holder and waste carrier;
- 5) the waste treatment method and classification of the treatment operation in accordance with annex 1 or 2;
- 6) in the case of waste generated from the treatment of waste, information in accordance with section 20(2) as applicable.

**Section 23**  
**Records kept by the waste carrier, waste broker and waste collection operator**

Records on waste transported, brokered or collected as part of the activities referred to in section 118(1)(5) of the Waste Act must contain the following information:

- 1) the quantity of waste;
- 2) the waste entry in accordance with the list of waste and the description of the type of waste, and essential information on the properties and composition of said waste;
- 3) in the case of hazardous waste, the main hazardous properties in accordance with annex 3;
- 4) the name and contact information of the property holder who delivered the waste, or the other waste holder;
- 5) the dates of waste transport or waste reception and delivery;
- 6) the name and contact information of the consignee of waste.

## **Section 24**

### **Information to be given in the shipping document**

- (1) The shipping document referred to in section 121 of the Waste Act shall include the following information:
- 1) the name and contact information of the waste producer or other waste holder, the waste carrier and consignee of waste;
  - 2) the time of shipment of waste and the origin and destination of the shipment;
  - 3) the waste entry in accordance with the list of waste and description of the type of waste;
  - 4) the quantity of waste;
  - 5) confirmation by the waste holder of the accuracy of the information provided;
  - 6) when the shipment of waste has ended, confirmation by the waste consignee of the reception of the waste, including information on the quantity of waste received.
- (2) The shipping document on the shipment of hazardous waste shall also include the following information:
- 1) the composition and physical characteristics of the waste and the main hazardous properties in accordance with annex 3;
  - 2) the type of packaging and means of transport of the waste;
  - 3) the waste treatment method.

## **Section 25**

### **Plan on organising the monitoring and supervision of waste treatment**

The plan on organising the monitoring and supervision of waste treatment, as referred to in section 120(2) of the Waste Act, shall include the following information:

- 1) the waste approved for treatment;
- 2) measures for inspecting the quality of waste received;
- 3) a description of the treatment process, including a report of any disturbances, and dangerous and exceptional situations related to the treatment, and stages of treatment considered key in terms of monitoring;
- 4) measures for arranging the supervision of emissions and waste generated from treatment;
- 5) action to be taken in the case of disturbances, and dangerous and exceptional situations, including remedial measures;
- 6) measures for analysing the quality of waste generated from treatment;
- 7) treatment methods and locations of waste generated from treatment;
- 8) the persons responsible for treatment and measures for their orientation and training;
- 9) other corresponding issues necessary to the arrangement of monitoring and supervision.

**Section 26**  
**Information to be provided to the municipal waste management authority  
on waste transport from properties**

(1) In accordance with section 39(2) of the Waste Act, the waste carrier shall provide the municipal waste management authority with the following information on all properties from which the carrier has collected waste during the monitoring period:

- 1) the property holder's name and contact information and the address of the property;
- 2) the number and quantity of waste containers, by type of waste, included in the transport organised;
- 3) the dates waste containers were emptied or the number of times waste containers were emptied and the interval between, by type of waste.

(2) The summary referred to in section 39(2) of the Waste Act shall include at least the following information:

- 1) the quantity of waste collected from properties located within the municipality, by type of waste;
- 2) the names and contact information of waste consignees and the quantity of waste delivered to each, by type of waste.

**Chapter 5 – Approval and notification procedures**

**Section 27**  
**Application for approval of activity in the waste management register**

The application for the approval of activity in a waste management register referred to in section 94(1) of the Waste Act shall include:

- 1) the operator's name, contact information, Business ID (Business Identity Code) and domicile;
- 2) the contact person's name and contact information;
- 3) a copy of a certificate of registration in the Trade Register, if the operations are subject to an entry in the Trade Register;
- 4) information about the transport licence, if the operations are subject to a transport licence;
- 5) a description of the means of transport and equipment;
- 6) a description of the type and quality of the waste to be transported or brokered for treatment, and an estimate of the quantity transported or brokered annually, by type of waste;
- 7) a description of the primary area of operation and other areas of operation;
- 8) a description of the operator's expertise;
- 9) a description of the financial guarantee to be provided in accordance with section 95 of the Waste Act.

**Section 28**  
**Contents of decision on approval in a waste management register**

The decision on approval in a waste management register, as referred to in section 96 of the Waste Act, shall include at least the following information:

- 1) the operator's name, contact information, Business ID (Business Identity Code) and domicile;
- 2) the contact person's name and contact information;
- 3) essential information given in the application;
- 4) the decision on the approval or non-approval of the activity in a waste management register;
- 5) any preconditions issued;
- 6) a justification of the decision and information on the regulations applied.

**Section 29**  
**Information to be included in the certificate of registration in a waste management register**

The certificate of registration in a waste management register, as referred to in section 98 of the Waste Act, shall include at least the following information:

- 1) the operator's name, contact information, Business ID (Business Identity Code) and domicile;
- 2) the contact person's name and contact information;
- 3) the approval date of the decision and its identification information;
- 4) information on which authority made the decision, and its contact information;
- 5) the operating area, means of transport and equipment, and waste to which the approval applies;
- 6) regulations attached to the decision;
- 7) the date by which the certificate must be verified.

**Section 30**  
**Notification of collection operations in a waste management register**

(1) A notification for entry in a waste management register of the collection of waste conducted on a professional basis, in accordance with section 100 of the Waste Act, shall include:

- 1) the operator's name, contact information and Business ID (Business Identity Code);
- 2) the contact person's name and contact information;
- 3) a description of the type and quality of the waste to be collected, and an estimate of the quantity collected annually, by type of waste;
- 4) for collection other than a continuous operation, the estimated duration;
- 5) the address of the waste reception point or other corresponding information on the location of the reception point;
- 6) a description of the waste containers used at the reception point;
- 7) a description of the organisation for waste collection in accordance with section 10;

- 8) a description of the transport of waste for treatment and the planned method and location of waste treatment.
- (2) Information on all waste reception points located in the municipality, covered by collection organised by the operator, may be included in one and the same notification.
- (3) The operator must notify the municipal environmental protection authority without delay of any essential changes in the information referred to in subsection 1, or if the operations are terminated.

### **Section 31**

#### **Contents of an application for pre-consent to a waste recovery facility**

An application for pre-consent to a waste recovery facility, as referred to in section 114 of the Waste Act, shall include the following information:

- 1) the operator's name, Business ID (Business Identity Code), contact information and contact person, as well as the name of the facility and visiting address;
- 2) a copy of a certificate of registration in the Trade Register, if the operations are subject to an entry in the Trade Register;
- 3) information on a valid environmental permit and an environmental management system referred to in section 114(2)(3) of the Waste Act;
- 4) a description of the waste for which pre-consent is applied, including the physical characteristics of the waste and impurities and variations in its properties;
- 5) a waste entry in accordance with the list of waste and the waste classification in accordance with Annexes IV and IVA of Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments of waste;
- 6) a description of the recovery method used, including classification of the recovery operation in accordance with annex 1;
- 7) the total quantity of waste recovered annually by the facility and quantities by type of waste, and an assessment of the proportion of waste imported on the basis of pre-consent;
- 8) the period for which pre-consent is applied;
- 9) waste quality assurance, records kept of waste and measures in case the composition of waste is unacceptable or for another reason, and other arrangements for the reception of waste;
- 10) a report of any problems in previous shipments of waste in which the operator participated, and of how these problems were solved.

## **Chapter 6 – Miscellaneous provisions**

### **Section 32**

#### **Duties of the Finnish Environment Institute**

In addition to the provisions laid down in the Waste Act, the Finnish Environment Institute shall

- 1) engage in research on and monitoring of reducing the quantity and harmfulness of waste and research on waste management, and shall arrange the related training, advisory services and communication;

- 2) participate in the preparation of the national waste plan and provisions issued under the Waste Act and instructions on waste issues;
- 3) participate in the development of quality assurance of data on waste, recorded in the environmental protection database referred to in section 27 of the Environmental Protection Act.

### **Section 33**

#### **Duties of the Centres for Economic Development, Transport and the Environment**

In addition to the provisions laid down in the Waste Act, the Centres for Economic Development, Transport and the Environment shall

- 1) ensure quality assurance of any data on waste they have recorded in the environmental protection database;
- 2) collect and acquire information on waste and waste management within their areas of operation;
- 3) ensure that training, advisory services, communication and monitoring are organised on waste and waste management within their areas of operation.

### **Section 34**

#### **Expert authorities and institutions**

Within their mandates, expert authorities and institutions referred to in section 27 of the Waste Act include the National Institute for Health and Welfare, the Finnish Food Safety Authority Evira, Customs, VTT Technical Research Centre of Finland and the Finnish Environment Institute.

### **Section 35**

#### **Contents of the national waste plan**

- (1) The national waste plan referred to in section 87 of the Waste Act shall include the following information:
- 1) the quantity, type and source of waste generated within the country and an evaluation of the future trends of these;
  - 2) a general description of waste collection and treatment systems and the allocation of responsibilities between municipal and private actors, including any special arrangements for hazardous and other waste, and major waste recovery and disposal installations;
  - 3) conclusions on the implementation of the valid national waste plan and on the assessment of its effectiveness;
  - 4) goals for the development of waste management, which shall, insofar as possible, include quantitative targets for recycling and other recovery of waste;
  - 5) a general assessment of the need to modernise the systems and facilities referred to in paragraph 2, the need for new treatment facilities, the quantities of waste processed by them, and the related investment and other costs, and a description of the location criteria for these installations;

- 6) any other measures planned in order to solve recognised problems, including measures for organising necessary awareness campaigns and providing information;
  - 7) an evaluation of the usefulness and suitability of the use of economic and other instruments in tackling various waste problems, taking account of the need to maintain the smooth functioning of the internal market;
  - 8) an evaluation of the effectiveness of the measures proposed in the plan in reaching the objectives set therein, and in fulfilling the intent of the Waste Act and promoting the implementation of provisions.
- (2) The section of the national waste plan on reducing the quantity and harmfulness of waste must include the following information:
- 1) a description of trends in the quantity and harmfulness of waste generated for a period covering at least the last ten years, and an estimate of future trends;
  - 2) a description of current measures for reducing the quantity and harmfulness of waste;
  - 3) objectives for reducing the quantity and harmfulness of waste;
  - 4) planned measures for promoting the reduction of waste quantity and harmfulness, taking account of the examples of waste prevention measures included in Annex IV of Directive 2008/98/EC of the European Parliament and of the Council on waste, hereinafter the Waste Directive, and an evaluation of the usefulness of the measures in attaining the objectives related to a reduction in the quantity and harmfulness of waste;
  - 5) qualitative and quantitative benchmarks for monitoring the progress of measures to reduce the quantity and harmfulness of waste.
- (3) The national waste plan shall include a section on packaging and packaging waste, where it shall be examined how to achieve the goals, set under the Waste Act, for reducing the quantity of packaging, and for re-use and recycling and other recovery of packaging waste.

### **Section 36**

#### **Contents of the regional waste plan**

The regional waste plan referred to in section 88 of the Waste Act shall include the following information regarding the area covered by the plan:

- 1) the quantity of municipal waste generated and treated in the area, and the quantity of other waste considered key in terms of waste management in the region, and an assessment of the trends of these in the future;
- 2) a description of the organisation of waste collection and treatment referred to in paragraph 1;
- 3) waste recovery and disposal facilities operating in the region, alongside establishments and corporations organising the re-use of products;
- 4) conclusions on the implementation of the valid regional waste plan and on the assessment of its effectiveness;
- 5) objectives regarding the reduction of the quantity and harmfulness of waste and development of waste management, which shall, insofar as possible, include quantitative goals for these;

- 6) an assessment of the need for reforming the organisation of activities and modernising the facilities referred to in paragraphs 2 and 3, and of the need for new treatment facilities and of the quantity of waste treated by them and the location criteria for these installations;
- 7) waste which is causing particular waste management problems in the region and measures planned for solving these problems, including measures for organising necessary awareness campaigns and providing information;
- 8) any decommissioned landfills and other corresponding waste treatment areas located in the region that are assessed as causing a hazard or harm to the environment or human health, and measures planned for their restoration;
- 9) measures planned for implementation in the region to promote the reduction of the quantity and harmfulness of waste, taking into account the measures included in Annex IV of the Waste Directive.

### **Section 37** **Entry into force**

(1) This Decree enters into force on 1 May 2012.

(2) This Degree repeals the Government Decision on information to be provided on hazardous waste and on the packing and labelling of hazardous waste (659/1996), the Government Decision on management of oil waste, excluding section 6 thereof, the Government Decision on construction waste (295/1997), the Government Decision on the use of sewage sludge in agriculture (282/1994), and the Ministry of the Environment Decree on the list of the most common wastes and of hazardous wastes (1129/2001).

## Annex 1

### RECOVERY OPERATIONS

- R 1 Use principally as a fuel or other means of generating energy <sup>1)</sup>
- R 2 Solvent reclamation or regeneration
- R 3 Recycling or reclamation of organic substances which are not used as solvents, including composting and other biological transformation processes <sup>2)</sup>
- R 4 Recycling or reclamation of metals and metal compounds
- R 5 Recycling or reclamation of other inorganic materials <sup>3)</sup>
- R 6 Regeneration of acids or bases
- R 7 Recovery of components used for pollution abatement
- R 8 Recovery of components from catalysts
- R 9 Oil re-refining or other reuses of oil
- R 10 Land treatment resulting in benefit to agriculture or ecological improvement
- R 11 Use of waste obtained from any of the operations numbered R 1 to R 10
- R 12 Exchange of waste for submission to any of the operations numbered R 1 to R 11 <sup>4)</sup>
- R 13 Storage of waste pending any of the operations numbered R 1 to R 12, excluding temporary storage, pending collection, on the site where the waste is produced <sup>5)</sup>

<sup>1)</sup> This applies to incineration facilities dedicated to the processing of municipal solid waste only where their energy efficiency is equal to or above 0.65. Energy efficiency is calculated using the following formula:

Energy efficiency =  $(E_p - (E_f + E_i)) / (0.97 \times (E_w + E_f))$  in which:

- $E_p$  means annual energy produced as heat or electricity.  $E_p$  is calculated with energy in the form of electricity being multiplied by 2.6 and heat produced for commercial use multiplied by 1.1 (GJ/year)
- $E_f$  means annual energy input to the system from fuels contributing to the production of steam (GJ/year).
- $E_w$  means annual energy contained in the treated waste calculated using the net calorific value of the waste (GJ/year).
- $E_i$  means annual energy imported excluding  $E_w$  and  $E_f$  (GJ/year).
- 0.97 is a factor accounting for energy losses due to bottom ash and radiation.

This formula shall be applied in accordance with the reference document on Best Available Techniques for waste incineration.

<sup>2)</sup> This includes gasification and pyrolysis using the generated components as chemicals.

<sup>3)</sup> This includes recycling of inorganic construction materials and soil cleaning, resulting in recovery of the soil.

<sup>4)</sup> If there is no other R code appropriate, this can include preliminary operations prior to the recovery of waste, including pre-processing such as, inter alia, dismantling, sorting,

crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11.

<sup>5)</sup> Temporary storage means temporary storage of waste referred to in section 6(1)(10) of the Waste Act.

## Annex 2

### DISPOSAL OPERATIONS

- D 1 Deposit into or on to land, e.g. a landfill
- D 2 Land treatment, e.g. biodegradation of liquid or sludgy discards in soil
- D 3 Deep injection, e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories
- D 4 Surface impoundment, e.g. placement of liquid or sludgy discards into pits, ponds or lagoons
- D 5 Specially engineered landfill, e.g. placement into lined discrete cells which are capped and isolated from one another and the environment
- D 6 Release into a water body, except seas or oceans
- D 7 Release into seas or oceans, including sea-bed insertion
- D 8 Biological treatment not specified elsewhere in this annex, which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12
- D 9 Physico-chemical treatment not specified elsewhere in this annex, which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12, e.g. evaporation, drying or calcination
- D 10 Incineration on land
- D 11 Incineration at sea <sup>1)</sup>
- D 12 Permanent storage, e.g. emplacement of containers in a mine
- D 13 Blending or mixing prior to submission to any of the operations numbered D 1 to D 12 <sup>2)</sup>
- D 14 Repackaging prior to submission to any of the operations numbered D 1 to D 13
- D 15 Storage pending any of the operations numbered D 1 to D 14, excluding temporary storage, pending collection, on the site where the waste is produced <sup>3)</sup>

<sup>1)</sup> Such operations are prohibited by Finnish and EU legislation and international conventions.

<sup>2)</sup> If no other appropriate D code is available, this can include preliminary operations prior to disposal, including pre-processing such as, inter alia, sorting, crushing, compacting, pelletising, drying, shredding, conditioning or separating prior to submission to any of the operations numbered D1 to D12.

<sup>3)</sup> Temporary storage means temporary storage of waste referred to in section 6(1)(10) of the Waste Act.

### Annex 3

#### **HAZARDOUS PROPERTIES OF WASTE AND THE LIMIT VALUES APPLIED WHEN INTERPRETING WASTE PROPERTIES**

##### 1. Hazardous properties of waste

*H 1 Explosive:* substances and preparations which may explode under the effect of a flame or which are more sensitive to shocks or friction than dinitrobenzene.

*H 2 Oxidising:* substances and preparations which exhibit highly exothermic reactions when in contact with other substances, particularly flammable substances.

*H 3-A Highly flammable:*

- liquid substances and preparations having a flash point below 21 °C, including extremely flammable liquids,
- substances and preparations which may become hot and finally catch fire in contact with air at ambient temperature, without any application of energy,
- solid substances and preparations which may readily catch fire after brief contact with a source of ignition and which continue to burn or to be consumed after the removal of the source of ignition,
- gaseous substances and preparations which are flammable in air at normal pressure, or
- substances and preparations which, in contact with water or damp air, evolve highly flammable gases in dangerous quantities.

*H 3-B Flammable:* liquid substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C.

*H 4 Irritant:* non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation.

*H 5 Harmful:* substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks.

*H 6 Toxic:* substances and preparations, including very toxic substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute or chronic health risks and even death.

*H 7 Carcinogenic:* substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce cancer or increase its incidence.

*H 8 Corrosive:* substances and preparations which may destroy living tissue on contact.

*H 9 Infectious:* substances and preparations containing viable micro-organisms or their toxins which are known or reliably believed to cause disease in humans or other living organisms.

*H 10 Toxic for reproduction:* substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce non-hereditary congenital malformations or increase their incidence.

*H 11 Mutagenic:* substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce hereditary genetic defects or increase their incidence.

*H 12 Waste* which releases toxic or very toxic gases in contact with water, air or an acid.

*H 13 Sensitising:* substances and preparations which, if they are inhaled or if they penetrate the skin, are capable of eliciting a hypersensitisation reaction such that, upon further exposure to the substance or preparation, characteristic adverse effects result. \*

*H 14 Ecotoxic:* waste which presents or may present immediate or delayed risks for the environment.

*H 15 Waste* capable by any means, after disposal, of yielding another substance, e.g. a leachate, which possesses any of the characteristics listed above.

The provisions laid down in the Ministry of Social Affairs and Health Decree on chemical classification principles and labelling apply to the interpretation of properties H 1, H 2, H 3-A, H 3-B, H 4, H 5, H 6, H 7, H 8, H 10 and H 11, and the classification of substances.

\* As far as testing methods are available.

2. Limit values applicable in the interpretation of properties H 4, H 5, H 6, H 7, H 8, H 10 and H 11

Waste is considered to possess one or several of the properties H 4, H 5, H 6, H 7, H 8, H 10 and H 11 referred to in paragraph 1 of this annex, if the concentration of the substance in waste (expressed as per cent by weight) is equal to or higher than the limit value given in the table below. Limit values do not apply to pure alloys uncontaminated by hazardous substances. If Table 3.2 in Annex VI of the CLP Regulation gives a lower limit value for a substance, that limit value shall apply.

Classification of substance value (%)	Substance concentration limit
Irritant (Xi and R41) *)	5
Irritant (Xi and R36, R37, R38) *)	20
Harmful (Xn and R20, R21, R22) *)	25
Harmful, possible risk of irreversible effects (Xn and R68/route of exposure)	10
Harmful, danger of serious damage to human health by prolonged exposure (Xn and R48/route of exposure)	10
Very toxic (T+ and R26, R27, R28) *)	0.1
Very toxic, may pose danger of very serious irreversible effects (T + and R39/route of exposure)	0.1
Toxic (T and R23, R24, R25) *)	3
Toxic, may pose danger of very serious irreversible effects (T and R39/route of exposure)	1
Toxic, danger of serious damage to human health by prolonged exposure (T and R48/route of exposure)	1
Carcinogenic, category 1 or 2 (T and R45, R49)	0.1
Carcinogenic, category 3 (Xn and R40)	1
Causes burns (C and R35) *)	1
Causes burns (C and R34) *)	5
Toxic to reproduction, category 1 or 2 (T and R60, R61)	0.5
Toxic to reproduction, category 3 (Xn and R62, R63)	5
Mutagenic, category 1 or 2 (T and R46)	0.1
Mutagenic, category 3 (Xn and R68)	1

\*) If waste contains more than one substance classified as hazardous, the Ministry of Social Affairs and Health Decree on chemical classification principles and labelling shall apply when calculating total [OR aggregate] concentrations.

## Annex 4

### **LIST OF WASTE: THE MOST COMMON WASTES AND HAZARDOUS WASTES**

#### Introduction

This list of waste contains examples of wastes. It is not a comprehensive list, and not all objects or substances mentioned on it are considered waste in every case. An object or substance is considered waste only if it fulfils the criteria for waste laid down in section 5(1) of the Waste Act.

Entries marked with an asterisk (\*) on the list are hazardous waste, unless otherwise decided with respect to that particular item under section 7 or 112 of the Waste Act.

Some entries on the list include references to dangerous substances contained in the waste. Waste is classified under such an entry only if the substances contained in it occur in concentrations that give the waste one or more of the properties listed in annex 3 of this Decree.

The limit values referred to in annex 3 of this Decree are not applicable to pure metal alloys that are uncontaminated by dangerous substances. Metal alloys mentioned separately on this list and indicated by an asterisk (\*) are nevertheless classified as hazardous waste.

For this list:

- 1) dangerous substance refers to a dangerous chemical as defined in section 11 of the Chemicals Act;
- 2) PCBs refers to polychlorinated biphenyls, polychlorinated triphenyls, monomethyltetrachlorodiphenylmethane, monomethyldichlorodiphenylmethane and monomethyldibromodiphenylmethane and mixtures containing a total of more than 0.005 per cent by weight of these substances;
- 3) heavy metal refers to all antimony, arsenic, cadmium, chromium(VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin compounds, as well as these materials in metallic form, provided that these compounds or substances are classified as dangerous substances under subparagraph 1.

The list consists of waste entries identified by a six-digit code and chapter headings identified by two- or four-digit codes. Individual waste items must not be viewed separately from their chapter heading. Waste is identified according to the list as follows:

- 1) Waste items indicated by a six-digit code corresponding to the origin, type and quality of waste, excluding the items ending in the '99' code, can be found in Chapters 01–12 or 17–20. Certain production units may have to categorise their operations under several different chapters. Separately collected packaging waste, including mixed packaging waste, is nevertheless always categorised under Chapter 15–01.
- 2) If an appropriate item cannot be found for identifying the waste mentioned in Chapters 01–12 or 17–20, Chapters 13, 14 and 15 should be applied next.
- 3) If none of the items in the above chapters are appropriate for identifying the waste in question, the waste is categorised under Chapter 16.

4) If the waste does not fall under Chapter 16 either, the 99 code (wastes not otherwise specified) referred to in subparagraph 1 above must be applied.

## Index

### Chapters of the list

- 01 Wastes resulting from exploration, mining, quarrying, physical and chemical treatment of minerals
- 02 Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
- 03 Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
- 04 Wastes from the leather, fur and textile industries
- 05 Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
- 06 Wastes from inorganic chemical processes
- 07 Wastes from organic chemical processes
- 08 Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
- 09 Wastes from the photographic industry
- 10 Wastes from thermal processes
- 11 Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
- 12 Wastes from shaping and physical and mechanical surface treatment of metals and plastics
- 13 Oil wastes and wastes of liquid fuels (except edible oils, 05 and 12)
- 14 Waste organic solvents, refrigerants and propellants (except 07 and 08)
- 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
- 16 Wastes not otherwise specified in the list
- 17 Construction and demolition wastes (including excavated soil from contaminated sites)
- 18 Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
- 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
- 20 Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions

**01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING,  
AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**

**01 01 wastes from mineral excavation**

- 01 01 01 wastes from mineral metalliferous excavation
- 01 01 02 wastes from mineral non-metalliferous excavation

**01 03 wastes from physical and chemical processing of metalliferous minerals**

- 01 03 04\* acid-generating tailings from processing of sulphide ore
- 01 03 05\* other tailings containing dangerous substances
- 01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05
- 01 03 07\* other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals
- 01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07
- 01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07
- 01 03 99 wastes not otherwise specified

**01 04 wastes from physical and chemical processing of non-metalliferous minerals**

- 01 04 07\* wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
- 01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07
- 01 04 09 waste sand and clays
- 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07
- 01 04 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07
- 01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
- 01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07
- 01 04 99 wastes not otherwise specified

**01 05 drilling muds and other drilling wastes**

- 01 05 04 freshwater drilling muds and wastes
- 01 05 05\* oil-containing drilling muds and wastes
- 01 05 06\* drilling muds and other drilling wastes containing dangerous substances
- 01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
- 01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
- 01 05 99 wastes not otherwise specified

## **02 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**

### **02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**

- 02 01 01 sludges from washing and cleaning
- 02 01 02 animal-tissue waste
- 02 01 03 plant-tissue waste
- 02 01 04 waste plastics (except packaging)
- 02 01 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
- 02 01 07 wastes from forestry
- 02 01 08\* agrochemical waste containing dangerous substances
- 02 01 09 agrochemical waste other than those mentioned in 02 01 08
- 02 01 10 waste metal
- 02 01 99 wastes not otherwise specified

### **02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin**

- 02 02 01 sludges from washing and cleaning
- 02 02 02 animal-tissue waste
- 02 02 03 materials unsuitable for consumption or processing
- 02 02 04 sludges from on-site effluent treatment
- 02 02 99 wastes not otherwise specified

### **02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**

- 02 03 01 sludges from washing, cleaning, peeling, centrifuging and separation
- 02 03 02 wastes from preserving agents
- 02 03 03 wastes from solvent extraction
- 02 03 04 materials unsuitable for consumption or processing
- 02 03 05 sludges from on-site effluent treatment
- 02 03 99 wastes not otherwise specified

### **02 04 wastes from sugar processing**

- 02 04 01 soil from cleaning and washing beet
- 02 04 02 off-specification calcium carbonate
- 02 04 03 sludges from on-site effluent treatment
- 02 04 99 wastes not otherwise specified

### **02 05 wastes from the dairy products industry**

- 02 05 01 materials unsuitable for consumption or processing
- 02 05 02 sludges from on-site effluent treatment
- 02 05 99 wastes not otherwise specified

### **02 06 wastes from the baking and confectionery industry**

- 02 06 01 materials unsuitable for consumption or processing
- 02 06 02 wastes from preserving agents
- 02 06 03 sludges from on-site effluent treatment
- 02 06 99 wastes not otherwise specified

**02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**

- 02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials
- 02 07 02 wastes from spirits distillation
- 02 07 03 wastes from chemical treatment
- 02 07 04 materials unsuitable for consumption or processing
- 02 07 05 sludges from on-site effluent treatment
- 02 07 99 wastes not otherwise specified

**03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**

**03 01 wastes from wood processing and the production of panels and furniture**

- 03 01 01 waste bark and cork
- 03 01 04\* sawdust, shavings, cuttings, wood and wood based boards (like particle board and veneer) containing dangerous substances
- 03 01 05 sawdust, shavings, cuttings, wood and wood based boards (like particle board and veneer) other than those mentioned in 03 01 04
- 03 01 99 wastes not otherwise specified

**03 02 wastes from wood preservation**

- 03 02 01\* non-halogenated organic wood preservatives
- 03 02 02\* organochlorinated wood preservatives
- 03 02 03\* organometallic wood preservatives
- 03 02 04\* inorganic wood preservatives
- 03 02 05\* other wood preservatives containing dangerous substances
- 03 02 99 wood preservatives not otherwise specified

**03 03 wastes from pulp, paper and cardboard production and processing**

- 03 03 01 waste bark and wood
- 03 03 02 green liquor sludge (from recovery of cooking liquor)
- 03 03 05 de-inking sludges from paper recycling
- 03 03 07 mechanically separated rejects from pulping of waste paper and cardboard
- 03 03 08 wastes from sorting of paper and cardboard destined for recycling
- 03 03 09 lime mud waste
- 03 03 10 fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
- 03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10
- 03 03 99 wastes not otherwise specified

**04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**

**04 01 wastes from the leather and fur industry**

- 04 01 01 fleshings and lime split wastes

- 04 01 02 liming waste
- 04 01 03\* degreasing wastes containing solvents without a liquid phase
- 04 01 04 tanning liquor containing chromium
- 04 01 05 tanning liquor free of chromium
- 04 01 06 sludges, in particular from on-site effluent treatment containing chromium
- 04 01 07 sludges, in particular from on-site effluent treatment free of chromium
- 04 01 08 waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
- 04 01 09 wastes from dressing and finishing
- 04 01 99 wastes not otherwise specified

**04 02 wastes from the textile industry**

- 04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
- 04 02 10 organic matter from natural products (for example grease, wax)
- 04 02 14\* wastes from finishing containing organic solvents
- 04 02 15 wastes from finishing other than those mentioned in 04 02 14
- 04 02 16\* dyestuffs and pigments containing dangerous substances
- 04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16
- 04 02 19\* sludges from on-site effluent treatment containing dangerous substances
- 04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19
- 04 02 21 wastes from unprocessed textile fibres
- 04 02 22 wastes from processed textile fibres
- 04 02 99 wastes not otherwise specified

**05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**

**05 01 wastes from petroleum refining**

- 05 01 02\* desalter sludges
- 05 01 03\* tank bottom sludges
- 05 01 04\* acid alkyl sludges
- 05 01 05\* oil spills
- 05 01 06\* oily sludges from maintenance operations of the plant or equipment
- 05 01 07\* acid tars
- 05 01 08\* other tars
- 05 01 09\* sludges from on-site effluent treatment containing dangerous substances
- 05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
- 05 01 11\* wastes from cleaning of fuels with bases
- 05 01 12\* oil containing acids
- 05 01 13 boiler feedwater sludges
- 05 01 14 wastes from cooling columns
- 05 01 15\* spent filter clays
- 05 01 16 sulphur-containing wastes from petroleum desulphurisation
- 05 01 17 bitumen
- 05 01 99 wastes not otherwise specified

**05 06 wastes from the pyrolytic treatment of coal**

- 05 06 01\* acid tars
- 05 06 03\* other tars

- 05 06 04 waste from cooling columns
- 05 06 99 wastes not otherwise specified

**05 07 wastes from natural gas purification and transportation**

- 05 07 01\* wastes containing mercury
- 05 07 02 wastes containing sulphur
- 05 07 99 wastes not otherwise specified

**06 WASTES FROM INORGANIC CHEMICAL PROCESSES**

**06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids**

- 06 01 01\* sulphuric acid and sulphurous acid
- 06 01 02\* hydrochloric acid
- 06 01 03\* hydrofluoric acid
- 06 01 04\* phosphoric and phosphorous acid
- 06 01 05\* nitric acid and nitrous acid
- 06 01 06\* other acids
- 06 01 99 wastes not otherwise specified

**06 02 wastes from the MFSU of bases**

- 06 02 01\* calcium hydroxide
- 06 02 03\* ammonium hydroxide
- 06 02 04\* sodium and potassium hydroxide
- 06 02 05\* other bases
- 06 02 99 wastes not otherwise specified

**06 03 wastes from the MFSU of salts and their solutions and metallic oxides**

- 06 03 11\* solid salts and solutions containing cyanides
- 06 03 13\* solid salts and solutions containing heavy metals
- 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
- 06 03 15\* metallic oxides containing heavy metals
- 06 03 16 metallic oxides other than those mentioned in 06 03 15
- 06 03 99 wastes not otherwise specified

**06 04 metal-containing wastes other than those mentioned in 06 03**

- 06 04 03\* wastes containing arsenic
- 06 04 04\* wastes containing mercury
- 06 04 05\* wastes containing other heavy metals
- 06 04 99 wastes not otherwise specified

**06 05 sludges from on-site effluent treatment**

- 06 05 02\* sludges from on-site effluent treatment containing dangerous substances
- 06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02

**06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes**

- 06 06 02\* wastes containing dangerous sulphides

- 06 06 03 wastes containing sulphides other than those mentioned in 06 06 02
- 06 06 99 wastes not otherwise specified

**06 07 wastes from the MFSU of halogens and halogen chemical processes**

- 06 07 01\* wastes containing asbestos from electrolysis
- 06 07 02\* activated carbon from chlorine production
- 06 07 03\* barium sulphate sludge containing mercury
- 06 07 04\* solutions and acids, for example contact acid
- 06 07 99 wastes not otherwise specified

**06 08 wastes from the MFSU of silicon and silicon derivatives**

- 06 08 02\* wastes containing dangerous silicones
- 06 08 99 wastes not otherwise specified

**06 09 wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes**

- 06 09 02 phosphorous slag
- 06 09 03\* calcium-based reaction wastes containing or contaminated with dangerous substances
- 06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03
- 06 09 99 wastes not otherwise specified

**06 10 wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture**

- 06 10 02\* wastes containing dangerous substances
- 06 10 99 wastes not otherwise specified

**06 11 wastes from the manufacture of inorganic pigments and opacifiers**

- 06 11 01 calcium-based reaction wastes from titanium dioxide production
- 06 11 99 wastes not otherwise specified

**06 13 wastes from inorganic chemical processes not otherwise specified**

- 06 13 01\* inorganic plant protection products, wood-preserving agents and other biocides.
- 06 13 02\* spent activated carbon (except 06 07 02)
- 06 13 03 carbon black
- 06 13 04\* wastes from asbestos processing
- 06 13 05\* soot
- 06 13 99 wastes not otherwise specified

**07 WASTES FROM ORGANIC CHEMICAL PROCESSES**

**07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**

- 07 01 01\* aqueous washing liquids and mother liquors
- 07 01 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 01 04\* other organic solvents, washing liquids and mother liquors
- 07 01 07\* halogenated still bottoms and reaction residues
- 07 01 08\* other still bottoms and reaction residues

- 07 01 09\* halogenated filter cakes and spent absorbents
- 07 01 10\* other filter cakes and spent absorbents
- 07 01 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11
- 07 01 99 wastes not otherwise specified

**07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres**

- 07 02 01\* aqueous washing liquids and mother liquors
- 07 02 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 02 04\* other organic solvents, washing liquids and mother liquors
- 07 02 07\* halogenated still bottoms and reaction residues
- 07 02 08\* other still bottoms and reaction residues
- 07 02 09\* halogenated filter cakes and spent absorbents
- 07 02 10\* other filter cakes and spent absorbents
- 07 02 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11
- 07 02 13 waste plastic
- 07 02 14\* wastes from additives containing dangerous substances
- 07 02 15 wastes from additives other than those mentioned in 07 02 14
- 07 02 16\* wastes containing dangerous silicones
- 07 02 17 wastes containing silicones other than those mentioned in 07 02 16
- 07 02 99 wastes not otherwise specified

**07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)**

- 07 03 01\* aqueous washing liquids and mother liquors
- 07 03 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 03 04\* other organic solvents, washing liquids and mother liquors
- 07 03 07\* halogenated still bottoms and reaction residues
- 07 03 08\* other still bottoms and reaction residues
- 07 03 09\* halogenated filter cakes and spent absorbents
- 07 03 10\* other filter cakes and spent absorbents
- 07 03 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11
- 07 03 99 wastes not otherwise specified

**07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides**

- 07 04 01\* aqueous washing liquids and mother liquors
- 07 04 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 04 04\* other organic solvents, washing liquids and mother liquors
- 07 04 07\* halogenated still bottoms and reaction residues
- 07 04 08\* other still bottoms and reaction residues
- 07 04 09\* halogenated filter cakes and spent absorbents
- 07 04 10\* other filter cakes and spent absorbents
- 07 04 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11
- 07 04 13\* solid wastes containing dangerous substances
- 07 04 99 wastes not otherwise specified

**07 05 wastes from the MFSU of pharmaceuticals**

- 07 05 01\* aqueous washing liquids and mother liquors
- 07 05 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 05 04\* other organic solvents, washing liquids and mother liquors
- 07 05 07\* halogenated still bottoms and reaction residues
- 07 05 08\* other still bottoms and reaction residues
- 07 05 09\* halogenated filter cakes and spent absorbents
- 07 05 10\* other filter cakes and spent absorbents
- 07 05 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11
- 07 05 13\* solid wastes containing dangerous substances
- 07 05 14 solid wastes other than those mentioned in 07 05 13
- 07 05 99 wastes not otherwise specified

**07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics**

- 07 06 01\* aqueous washing liquids and mother liquors
- 07 06 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 06 04\* other organic solvents, washing liquids and mother liquors
- 07 06 07\* halogenated still bottoms and reaction residues
- 07 06 08\* other still bottoms and reaction residues
- 07 06 09\* halogenated filter cakes and spent absorbents
- 07 06 10\* other filter cakes and spent absorbents
- 07 06 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11
- 07 06 99 wastes not otherwise specified

**07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified**

- 07 07 01\* aqueous washing liquids and mother liquors
- 07 07 03\* organic halogenated solvents, washing liquids and mother liquors
- 07 07 04\* other organic solvents, washing liquids and mother liquors
- 07 07 07\* halogenated still bottoms and reaction residues
- 07 07 08\* other still bottoms and reaction residues
- 07 07 09\* halogenated filter cakes and spent absorbents
- 07 07 10\* other filter cakes and spent absorbents
- 07 07 11\* sludges from on-site effluent treatment containing dangerous substances
- 07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11
- 07 07 99 wastes not otherwise specified

**08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS****08 01 wastes from MFSU and removal of paint and varnish**

- 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances
- 08 01 12 waste paint and varnish other than those mentioned in 08 01 11

- 08 01 13\* sludges from paint or varnish containing organic solvents or other dangerous substances
- 08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13
- 08 01 15\* aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances
- 08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
- 08 01 17\* wastes from paint or varnish removal containing organic solvents or other dangerous substances
- 08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17
- 08 01 19\* aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances
- 08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
- 08 01 21\* waste paint or varnish remover
- 08 01 99 wastes not otherwise specified

**08 02 wastes from MFSU of other coatings (including ceramic materials)**

- 08 02 01 waste coating powders
- 08 02 02 aqueous sludges containing ceramic materials
- 08 02 03 aqueous suspensions containing ceramic materials
- 08 02 99 wastes not otherwise specified

**08 03 wastes from MFSU of printing inks**

- 08 03 07 aqueous sludges containing ink
- 08 03 08 aqueous liquid waste containing ink
- 08 03 12\* waste ink containing dangerous substances
- 08 03 13 waste ink other than those mentioned in 08 03 12
- 08 03 14\* ink sludges containing dangerous substances
- 08 03 15 ink sludges other than those mentioned in 08 03 14
- 08 03 16\* waste etching solutions
- 08 03 17\* waste printing toner containing dangerous substances
- 08 03 18 waste printing toner other than those mentioned in 08 03 17
- 08 03 19\* disperse oil
- 08 03 99 wastes not otherwise specified

**08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)**

- 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances
- 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
- 08 04 11\* adhesive and sealant sludges containing organic solvents or other dangerous substances
- 08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11
- 08 04 13\* aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances
- 08 04 14 aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13

- 08 04 15\* aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances
- 08 04 16 aqueous liquid waste containing adhesives or sealants other than those mentioned in  
08 04 15
- 08 04 17\* rosin oil
- 08 04 99 wastes not otherwise specified

**08 05 wastes not otherwise specified in 08**

- 08 05 01\* waste isocyanates

**09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY**

**09 01 wastes from the photographic industry**

- 09 01 01\* water-based developer and activator solutions
- 09 01 02\* water-based offset plate developer solutions
- 09 01 03\* solvent-based developer solutions
- 09 01 04\* fixer solutions
- 09 01 05\* bleach solutions and bleach fixer solutions
- 09 01 06\* wastes containing silver from on-site treatment of photographic wastes
- 09 01 07 photographic film and paper containing silver or silver compounds
- 09 01 08 photographic film and paper free of silver or silver compounds
- 09 01 10 single-use cameras without batteries
- 09 01 11\* single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03
- 09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11
- 09 01 13\* aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
- 09 01 99 wastes not otherwise specified

**10 WASTES FROM THERMAL PROCESSES**

**10 01 wastes from power stations and other combustion plants (except 19)**

- 10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
- 10 01 02 coal fly ash
- 10 01 03 fly ash from peat and untreated wood
- 10 01 04\* oil fly ash and boiler dust
- 10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form
- 10 01 07 calcium-based reaction wastes from flue-gas desulphurisation in sludge form
- 10 01 09\* sulphuric acid
- 10 01 13\* fly ash from emulsified hydrocarbons used as fuel
- 10 01 14\* bottom ash, slag and boiler dust from co-incineration containing dangerous substances
- 10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in  
10 01 14
- 10 01 16\* fly ash from co-incineration containing dangerous substances
- 10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16

- 10 01 18\* wastes from gas cleaning containing dangerous substances
- 10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
- 10 01 20\* sludges from on-site effluent treatment containing dangerous substances
- 10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20
- 10 01 22\* aqueous sludges from boiler cleansing containing dangerous substances
- 10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
- 10 01 24 sands from fluidised beds
- 10 01 25 wastes from fuel storage and preparation of coal-fired power plants
- 10 01 26 wastes from cooling-water treatment
- 10 01 99 wastes not otherwise specified

**10 02 wastes from the iron and steel industry**

- 10 02 01 wastes from the processing of slag
- 10 02 02 unprocessed slag
- 10 02 07\* solid wastes from gas treatment containing dangerous substances
- 10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07
- 10 02 10 mill scales
- 10 02 11\* wastes from cooling-water treatment containing oil
- 10 02 12 wastes from cooling-water treatment other than those mentioned in 10 02 11
- 10 02 13\* sludges and filter cakes from gas treatment containing dangerous substances
- 10 02 14 sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
- 10 02 15 other sludges and filter cakes
- 10 02 99 wastes not otherwise specified

**10 03 wastes from aluminium thermal metallurgy**

- 10 03 02 anode scraps
- 10 03 04\* primary production slags
- 10 03 05 waste alumina
- 10 03 08\* salt slags from secondary production
- 10 03 09\* black drosses from secondary production
- 10 03 15\* skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
- 10 03 16 skimmings other than those mentioned in 10 03 15
- 10 03 17\* tar-containing wastes from anode manufacture
- 10 03 18 carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
- 10 03 19\* flue-gas dust containing dangerous substances
- 10 03 20 flue-gas dust other than those mentioned in 10 03 19
- 10 03 21\* other particulates and dust (including ball-mill dust) containing dangerous substances
- 10 03 22 other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
- 10 03 23\* solid wastes from gas treatment containing dangerous substances
- 10 03 24 solid wastes from gas treatment other than those mentioned in 10 03 23
- 10 03 25\* sludges and filter cakes from gas treatment containing dangerous substances

- 10 03 26 sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
- 10 03 27\* wastes from cooling-water treatment containing oil
- 10 03 28 wastes from cooling-water treatment other than those mentioned in 10 03 27
- 10 03 29\* wastes from treatment of salt slags and black drosses containing dangerous substances
- 10 03 30 wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
- 10 03 99 wastes not otherwise specified

**10 04 wastes from lead thermal metallurgy**

- 10 04 01\* slags from primary and secondary production
- 10 04 02\* dross and skimmings from primary and secondary production
- 10 04 03\* calcium arsenate
- 10 04 04\* flue-gas dust
- 10 04 05\* other particulates and dust
- 10 04 06\* solid wastes from gas treatment
- 10 04 07\* sludges and filter cakes from gas treatment
- 10 04 09\* wastes from cooling-water treatment containing oil
- 10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09
- 10 04 99 wastes not otherwise specified

**10 05 wastes from zinc thermal metallurgy**

- 10 05 01 slags from primary and secondary production
- 10 05 03\* flue-gas dust
- 10 05 04 other particulates and dust
- 10 05 05\* solid waste from gas treatment
- 10 05 06\* sludges and filter cakes from gas treatment
- 10 05 08\* wastes from cooling-water treatment containing oil
- 10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08
- 10 05 10\* dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
- 10 05 11 dross and skimmings other than those mentioned in 10 05 10
- 10 05 99 wastes not otherwise specified

**10 06 wastes from copper thermal metallurgy**

- 10 06 01 slags from primary and secondary production
- 10 06 02 dross and skimmings from primary and secondary production
- 10 06 03\* flue-gas dust
- 10 06 04 other particulates and dust
- 10 06 06\* solid wastes from gas treatment
- 10 06 07\* sludges and filter cakes from gas treatment
- 10 06 09\* wastes from cooling-water treatment containing oil
- 10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09
- 10 06 99 wastes not otherwise specified

**10 07 wastes from silver, gold and platinum thermal metallurgy**

- 10 07 01 slags from primary and secondary production
- 10 07 02 dross and skimmings from primary and secondary production

- 10 07 03 solid wastes from gas treatment
- 10 07 04 other particulates and dust
- 10 07 05 sludges and filter cakes from gas treatment
- 10 07 07\* wastes from cooling-water treatment containing oil
- 10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07
- 10 07 99 wastes not otherwise specified

**10 08 wastes from other non-ferrous thermal metallurgy**

- 10 08 04 particulates and dust
- 10 08 08\* salt slag from primary and secondary production
- 10 08 09 other slags
- 10 08 10\* dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
- 10 08 11 dross and skimmings other than those mentioned in 10 08 10
- 10 08 12\* tar-containing wastes from anode manufacture
- 10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in
  - 10 08 12
- 10 08 14 anode scrap
- 10 08 15\* flue-gas dust containing dangerous substances
- 10 08 16 flue-gas dust other than those mentioned in 10 08 15
- 10 08 17\* sludges and filter cakes from flue-gas treatment containing dangerous substances
- 10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
- 10 08 19\* wastes from cooling-water treatment containing oil
- 10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19
- 10 08 99 wastes not otherwise specified

**10 09 wastes from casting of ferrous pieces**

- 10 09 03 furnace slag
- 10 09 05\* casting cores and moulds which have not undergone pouring containing dangerous substances
- 10 09 06 casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
- 10 09 07\* casting cores and moulds which have undergone pouring containing dangerous substances
- 10 09 08 casting cores and moulds which have undergone pouring other than those mentioned
  - in 10 09 07
- 10 09 09\* flue-gas dust containing dangerous substances
- 10 09 10 flue-gas dust other than those mentioned in 10 09 09
- 10 09 11\* other particulates containing dangerous substances
- 10 09 12 other particulates other than those mentioned in 10 09 11
- 10 09 13\* waste binders containing dangerous substances
- 10 09 14 waste binders other than those mentioned in 10 09 13
- 10 09 15\* waste crack-indicating agent containing dangerous substances
- 10 09 16 waste crack-indicating agent other than those mentioned in 10 09 15
- 10 09 99 wastes not otherwise specified

**10 10 wastes from casting of non-ferrous pieces**

- 10 10 03 furnace slag
- 10 10 05\* casting cores and moulds which have not undergone pouring, containing dangerous substances
- 10 10 06 casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
- 10 10 07\* casting cores and moulds which have undergone pouring, containing dangerous substances
- 10 10 08 casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
- 10 10 09\* flue-gas dust containing dangerous substances
- 10 10 10 flue-gas dust other than those mentioned in 10 10 09
- 10 10 11\* other particulates containing dangerous substances
- 10 10 12 other particulates other than those mentioned in 10 10 11
- 10 10 13\* waste binders containing dangerous substances
- 10 10 14 waste binders other than those mentioned in 10 10 13
- 10 10 15\* waste crack-indicating agent containing dangerous substances
- 10 10 16 waste crack-indicating agent other than those mentioned in 10 10 15
- 10 10 99 wastes not otherwise specified

**10 11 wastes from manufacture of glass and glass products**

- 10 11 03 waste glass-based fibrous materials
- 10 11 05 particulates and dust
- 10 11 09\* waste preparation mixture before thermal processing, containing dangerous substances
- 10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
- 10 11 11\* waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
- 10 11 12 waste glass other than those mentioned in 10 11 11
- 10 11 13\* glass-polishing and -grinding sludge containing dangerous substances
- 10 11 14 glass-polishing and -grinding sludge other than those mentioned in 10 11 13
- 10 11 15\* solid wastes from flue-gas treatment containing dangerous substances
- 10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15
- 10 11 17\* sludges and filter cakes from flue-gas treatment containing dangerous substances
- 10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
- 10 11 19\* solid wastes from on-site effluent treatment containing dangerous substances
- 10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
- 10 11 99 wastes not otherwise specified

**10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products**

- 10 12 01 waste preparation mixture before thermal processing
- 10 12 03 particulates and dust
- 10 12 05 sludges and filter cakes from gas treatment

- 10 12 06 discarded moulds
- 10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)
- 10 12 09\* solid wastes from gas treatment containing dangerous substances
- 10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09
- 10 12 11\* wastes from glazing containing heavy metals
- 10 12 12 wastes from glazing other than those mentioned in 10 12 11
- 10 12 13 sludge from on-site effluent treatment
- 10 12 99 wastes not otherwise specified

**10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them**

- 10 13 01 waste preparation mixture before thermal processing
- 10 13 04 wastes from calcination and hydration of lime
- 10 13 06 particulates and dust (except 10 13 12 and 10 13 13)
- 10 13 07 sludges and filter cakes from gas treatment
- 10 13 09\* wastes from asbestos-cement manufacture containing asbestos
- 10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
- 10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
- 10 13 12\* solid wastes from gas treatment containing dangerous substances
- 10 13 13 solid wastes from gas treatment other than those mentioned in 10 13 12
- 10 13 14 waste concrete and concrete sludge
- 10 13 99 wastes not otherwise specified

**10 14 waste from crematoria**

- 10 14 01\* waste from gas cleaning containing mercury

**11 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY**

**11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)**

- 11 01 05\* pickling acids
- 11 01 06\* acids not otherwise specified
- 11 01 07\* pickling bases
- 11 01 08\* phosphatising sludges
- 11 01 09\* sludges and filter cakes containing dangerous substances
- 11 01 10 sludges and filter cakes other than those mentioned in 11 01 09
- 11 01 11\* aqueous rinsing liquids containing dangerous substances
- 11 01 12 aqueous rinsing liquids other than those mentioned in 11 01 11
- 11 01 13\* degreasing wastes containing dangerous substances
- 11 01 14 degreasing wastes other than those mentioned in 11 01 13
- 11 01 15\* eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
- 11 01 16\* saturated or spent ion exchange resins

- 11 01 98\* other wastes containing dangerous substances
- 11 01 99 wastes not otherwise specified

**11 02 wastes from non-ferrous hydrometallurgical processes**

- 11 02 02\* sludges from zinc hydrometallurgy (including jarosite, goethite)
- 11 02 03 wastes from the production of anodes for aqueous electrolytical processes
- 11 02 05\* wastes from copper hydrometallurgical processes containing dangerous substances
- 11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
- 11 02 07\* other wastes containing dangerous substances
- 11 02 99 wastes not otherwise specified

**11 03 sludges and solids from tempering processes**

- 11 03 01\* wastes containing cyanide
- 11 03 02\* other wastes

**11 05 wastes from hot galvanising processes**

- 11 05 01 hard zinc
- 11 05 02 zinc ash
- 11 05 03\* solid wastes from gas treatment
- 11 05 04\* spent flux
- 11 05 99 wastes not otherwise specified

**12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**

**12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics**

- 12 01 01 ferrous metal filings and turnings
- 12 01 02 ferrous metal dust and particles
- 12 01 03 non-ferrous metal filings and turnings
- 12 01 04 non-ferrous metal dust and particles
- 12 01 05 plastics shavings and turnings
- 12 01 06\* mineral-based machining oils containing halogens (except emulsions and solutions)
- 12 01 07\* mineral-based machining oils free of halogens (except emulsions and solutions)
- 12 01 08\* machining emulsions and solutions containing halogens
- 12 01 09\* machining emulsions and solutions free of halogens
- 12 01 10\* synthetic machining oils
- 12 01 12\* spent waxes and fats
- 12 01 13 welding wastes
- 12 01 14\* machining sludges containing dangerous substances
- 12 01 15 machining sludges other than those mentioned in 12 01 14
- 12 01 16\* waste blasting material containing dangerous substances
- 12 01 17 waste blasting material other than those mentioned in 12 01 16
- 12 01 18\* metal sludge (grinding, honing and lapping sludge) containing oil
- 12 01 19\* readily biodegradable machining oil

- 12 01 20\* spent grinding bodies and grinding materials containing dangerous substances
- 12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20
- 12 01 99 wastes not otherwise specified

**12 03 wastes from water and steam degreasing processes (except 11)**

- 12 03 01\* aqueous washing liquids
- 12 03 02\* steam degreasing wastes

**13 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)**

**13 01 waste hydraulic oils**

- 13 01 01\* hydraulic oils, containing PCBs
- 13 01 04\* chlorinated emulsions
- 13 01 05\* non-chlorinated emulsions
- 13 01 09\* mineral-based chlorinated hydraulic oils
- 13 01 10\* mineral based non-chlorinated hydraulic oils
- 13 01 11\* synthetic hydraulic oils
- 13 01 12\* readily biodegradable hydraulic oils
- 13 01 13\* other hydraulic oils

**13 02 waste engine, gear and lubricating oils**

- 13 02 04\* mineral-based chlorinated engine, gear and lubricating oils
- 13 02 05\* mineral-based non-chlorinated engine, gear and lubricating oils
- 13 02 06\* synthetic engine, gear and lubricating oils
- 13 02 07\* readily biodegradable engine, gear and lubricating oils
- 13 02 08\* other engine, gear and lubricating oils

**13 03 waste insulating and heat transmission oils**

- 13 03 01\* insulating or heat transmission oils containing PCBs
- 13 03 06\* mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
- 13 03 07\* mineral-based non-chlorinated insulating and heat transmission oils
- 13 03 08\* synthetic insulating and heat transmission oils
- 13 03 09\* readily biodegradable insulating and heat transmission oils
- 13 03 10\* other insulating and heat transmission oils

**13 04 bilge oils**

- 13 04 01\* bilge oils from inland navigation
- 13 04 02\* bilge oils from jetty sewers
- 13 04 03\* bilge oils from other navigation

**13 05 oil/water separator contents**

- 13 05 01\* solids from grit chambers and oil/water separators
- 13 05 02\* sludges from oil/water separators
- 13 05 03\* interceptor sludges
- 13 05 06\* oil from oil/water separators
- 13 05 07\* oily water from oil/water separators

13 05 08\* mixtures of wastes from grit chambers and oil/water separators

**13 07 wastes of liquid fuels**

13 07 01\* fuel oil and diesel

13 07 02\* petrol

13 07 03\* other fuels (including mixtures)

**13 08 oil wastes not otherwise specified**

13 08 01\* desalter sludges or emulsions

13 08 02\* other emulsions

13 08 99\* wastes not otherwise specified

**14 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS  
(except 07 and 08)**

**14 06 waste organic solvents, refrigerants and foam/aerosol propellants**

14 06 01\* chlorofluorocarbons, HCFC, HFC

14 06 02\* other halogenated solvents and solvent mixtures

14 06 03\* other solvents and solvent mixtures

14 06 04\* sludges or solid wastes containing halogenated solvents

14 06 05\* sludges or solid wastes containing other solvents

**15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER  
MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE  
SPECIFIED**

**15 01 packaging (including separately collected municipal packaging waste)**

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 03 wooden packaging

15 01 04 metallic packaging

15 01 05 composite packaging

15 01 06 mixed packaging

15 01 07 glass packaging

15 01 09 textile packaging

15 01 10\* packaging containing residues of or contaminated by dangerous substances

15 01 11\* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

**15 02 absorbents, filter materials, wiping cloths and protective clothing**

15 02 02\* absorbents, filter materials (including oil filters not otherwise specified),  
wiping cloths, protective clothing contaminated by dangerous substances

15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than  
those mentioned in 15 02 02

**16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST**

- 16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
- 16 01 03 end-of-life tyres
  - 16 01 04\* end-of-life vehicles
  - 16 01 06 end-of-life vehicles, containing neither liquids nor other hazardous components
  - 16 01 07\* oil filters
  - 16 01 08\* components containing mercury
  - 16 01 09\* components containing PCBs
  - 16 01 10\* explosive components (for example air bags)
  - 16 01 11\* brake pads containing asbestos
  - 16 01 12 brake pads other than those mentioned in 16 01 11
  - 16 01 13\* brake fluids
  - 16 01 14\* antifreeze fluids containing dangerous substances
  - 16 01 15 antifreeze fluids other than those mentioned in 16 01 14
  - 16 01 16 tanks for liquefied gas
  - 16 01 17 ferrous metal
  - 16 01 18 non-ferrous metal
  - 16 01 19 plastic
  - 16 01 20 glass
  - 16 01 21\* hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
  - 16 01 22 components not otherwise specified
  - 16 01 99 wastes not otherwise specified
- 16 02 wastes from electrical and electronic equipment and other equipment**
- 16 02 09\* transformers and capacitors containing PCBs
  - 16 02 10\* discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
  - 16 02 11\* discarded equipment containing chlorofluorocarbons, HCFC, HFC
  - 16 02 12\* discarded equipment containing free asbestos
  - 16 02 13\* discarded equipment containing hazardous components<sup>1</sup> other than those mentioned in 16 02 09 to 16 02 12
  - 16 02 14 discarded equipment other than those mentioned in 16 02 09 to 16 02 13
  - 16 02 15\* hazardous components removed from discarded equipment
  - 16 02 16 components removed from discarded equipment other than those mentioned in 16 02 15
  - 16 02 97\* other equipment containing hazardous components
  - 16 02 98 other equipment other than those mentioned in 16 02 97
- 16 03 off-specification batches and unused products**
- 16 03 03\* inorganic wastes containing dangerous substances
  - 16 03 04 inorganic wastes other than those mentioned in 16 03 03
  - 16 03 05\* organic wastes containing dangerous substances
  - 16 03 06 organic wastes other than those mentioned in 16 03 05

---

<sup>1</sup> Hazardous components from electrical and electronic equipment may include accumulators and batteries mentioned in 16 06 and marked as hazardous; mercury switches, glass from cathode ray tubes and other activated glass, etc.

**16 04 waste explosives**

- 16 04 01\* waste ammunition
- 16 04 02\* fireworks wastes
- 16 04 03\* other waste explosives

**16 05 gases in pressure containers and discarded chemicals**

- 16 05 04\* gases in pressure containers (including halons) containing dangerous substances
- 16 05 05 gases in pressure containers other than those mentioned in 16 05 04
- 16 05 06\* laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
- 16 05 07\* discarded inorganic chemicals consisting of or containing dangerous substances
- 16 05 08\* discarded organic chemicals consisting of or containing dangerous substances
- 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

**16 06 batteries and accumulators**

- 16 06 01\* lead batteries
- 16 06 02\* Ni-Cd batteries
- 16 06 03\* mercury-containing batteries
- 16 06 04 alkaline batteries (except 16 06 03)
- 16 06 05 other batteries and accumulators
- 16 06 06\* separately collected electrolyte from batteries and accumulators

**16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)**

- 16 07 08\* wastes containing oil
- 16 07 09\* wastes containing other dangerous substances
- 16 07 99 wastes not otherwise specified

**16 08 spent catalysts**

- 16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
- 16 08 02\* spent catalysts containing dangerous transition metals<sup>2</sup> or dangerous transition metal compounds
- 16 08 03 spent catalysts containing transition metals or transition metal compounds not otherwise specified
- 16 08 04 spent fluid catalytic cracking catalysts (except 16 08 07)
- 16 08 05\* spent catalysts containing phosphoric acid
- 16 08 06\* spent liquids used as catalysts
- 16 08 07\* spent catalysts contaminated with dangerous substances

**16 09 oxidising substances**


---

<sup>2</sup> For the purpose of this entry, transition metals are: scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum. These metals or their compounds are dangerous if they are classified as dangerous substances. The classification of dangerous substances shall determine which among those transition metals and which transition metal compounds are hazardous.

- 16 09 01\* permanganates, for example potassium permanganate
- 16 09 02\* chromates, for example potassium chromate, potassium or sodium dichromate
- 16 09 03\* peroxides, for example hydrogen peroxide
- 16 09 04\* oxidising substances, not otherwise specified

**16 10 aqueous liquid wastes destined for off-site treatment**

- 16 10 01\* aqueous liquid wastes containing dangerous substances
- 16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01
- 16 10 03\* aqueous concentrates containing dangerous substances
- 16 10 04 aqueous concentrates other than those mentioned in 16 10 03

**16 11 waste linings and refractories**

- 16 11 01\* carbon-based linings and refractories from metallurgical processes containing dangerous substances
- 16 11 02 carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
- 16 11 03\* other linings and refractories from metallurgical processes containing dangerous substances
- 16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
- 16 11 05\* linings and refractories from non-metallurgical processes containing dangerous substances
- 16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05

**17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**

**17 01 concrete, bricks, tiles and ceramics**

- 17 01 01 concrete
- 17 01 02 bricks
- 17 01 03 tiles and ceramics
- 17 01 06\* mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
- 17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

**17 02 wood, glass and plastic**

- 17 02 01 wood
- 17 02 02 glass
- 17 02 03 plastic
- 17 02 04\* glass, plastic and wood containing or contaminated with dangerous substances

**17 03 bituminous mixtures, coal tar and tarred products**

- 17 03 01\* bituminous mixtures containing coal tar
- 17 03 02 bituminous mixtures other than those mentioned in 17 03 01
- 17 03 03\* coal tar and tarred products

**17 04 metals (including their alloys)**

- 17 04 01 copper, bronze, brass
- 17 04 02 aluminium
- 17 04 03 lead
- 17 04 04 zinc
- 17 04 05 iron and steel
- 17 04 06 tin
- 17 04 07 mixed metals
- 17 04 09\* metal waste contaminated with dangerous substances
- 17 04 10\* cables containing oil, coal tar and other dangerous substances
- 17 04 11 cables other than those mentioned in 17 04 10

**17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil**

- 17 05 03\* soil and stones containing dangerous substances
- 17 05 04 soil and stones other than those mentioned in 17 05 03
- 17 05 05\* dredging spoil containing dangerous substances
- 17 05 06 dredging spoil other than those mentioned in 17 05 05
- 17 05 07\* track ballast containing dangerous substances
- 17 05 08 track ballast other than those mentioned in 17 05 07

**17 06 insulation materials and asbestos-containing construction materials**

- 17 06 01\* insulation materials containing asbestos
- 17 06 03\* other insulation materials consisting of or containing dangerous substances
- 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03
- 17 06 05\* construction materials containing asbestos

**17 08 gypsum-based construction material**

- 17 08 01\* gypsum-based construction materials contaminated with dangerous substances
- 17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01

**17 09 other construction and demolition wastes**

- 17 09 01\* construction and demolition wastes containing mercury
- 17 09 02\* construction and demolition wastes containing PCB (for example PCB-containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors)
- 17 09 03\* other construction and demolition wastes (including mixed wastes) containing dangerous substances
- 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

**18 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)****18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans**

- 18 01 01 sharps (except 18 01 03)

- 18 01 02 body parts and organs including blood bags and blood preserves (except 18 01 03)
- 18 01 03\* wastes whose collection and disposal is subject to special requirements in order to prevent infection
- 18 01 04 wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
- 18 01 06\* chemicals consisting of or containing dangerous substances
- 18 01 07 chemicals other than those mentioned in 18 01 06
- 18 01 08\* cytotoxic and cytostatic medicines
- 18 01 09\* medicines other than those mentioned in 18 01 08
- 18 01 10\* amalgam waste from dental care

**18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals**

- 18 02 01 sharps (except 18 02 02)
- 18 02 02\* wastes whose collection and disposal is subject to special requirements in order to prevent infection
- 18 02 03 wastes whose collection and disposal is not subject to special requirements in order to prevent infection
- 18 02 05\* chemicals consisting of or containing dangerous substances
- 18 02 06 chemicals other than those mentioned in 18 02 05
- 18 02 07\* cytotoxic and cytostatic medicines
- 18 02 08\* medicines other than those mentioned in 18 02 07

**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 02 ferrous materials removed from bottom ash
- 19 01 05\* filter cake from gas treatment
- 19 01 06\* aqueous liquid wastes from gas treatment and other aqueous liquid wastes
- 19 01 07\* solid wastes from gas treatment
- 19 01 10\* spent activated carbon from flue-gas treatment
- 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
- 19 01 13\* fly ash containing dangerous substances
- 19 01 14 fly ash other than those mentioned in 19 01 13
- 19 01 15\* boiler dust containing dangerous substances
- 19 01 16 boiler dust other than those mentioned in 19 01 15
- 19 01 17\* pyrolysis wastes containing dangerous substances
- 19 01 18 pyrolysis wastes other than those mentioned in 19 01 17
- 19 01 19 sands from fluidised beds
- 19 01 99 wastes not otherwise specified

**19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**

- 19 02 03 premixed wastes composed only of non-hazardous wastes
- 19 02 04\* premixed wastes composed of at least one hazardous waste
- 19 02 05\* sludges from physico/chemical treatment containing dangerous substances
- 19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05
- 19 02 07\* oil and concentrates from separation
- 19 02 08\* liquid combustible wastes containing dangerous substances
- 19 02 09\* solid combustible wastes containing dangerous substances
- 19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09
- 19 02 11\* other wastes containing dangerous substances
- 19 02 99 wastes not otherwise specified

**19 03 stabilised/solidified wastes<sup>3</sup>**

- 19 03 04\* wastes marked as hazardous, partly<sup>4</sup> stabilized
- 19 03 05 stabilised wastes other than those mentioned in 19 03 04
- 19 03 06\* wastes marked as hazardous, solidified
- 19 03 07 solidified wastes other than those mentioned in 19 03 06

**19 04 vitrified waste and wastes from vitrification**

- 19 04 01 vitrified waste
- 19 04 02\* fly ash and other flue-gas treatment wastes
- 19 04 03\* non-vitrified solid phase
- 19 04 04 aqueous liquid wastes from vitrified waste tempering

**19 05 wastes from aerobic treatment of solid wastes**

- 19 05 01 non-composted fraction of municipal and similar wastes
- 19 05 02 non-composted fraction of animal and vegetable waste
- 19 05 03 off-specification compost
- 19 05 99 wastes not otherwise specified

**19 06 wastes from anaerobic treatment of waste**

- 19 06 03 liquor from anaerobic treatment of municipal waste
- 19 06 04 digestate from anaerobic treatment of municipal waste
- 19 06 05 liquor from anaerobic treatment of animal and vegetable waste
- 19 06 06 digestate from anaerobic treatment of animal and vegetable waste
- 19 06 99 wastes not otherwise specified

**19 07 landfill leachate**

- 19 07 02\* landfill leachate containing dangerous substances
- 19 07 03 landfill leachate other than those mentioned in 19 07 02

**19 08 wastes from waste water treatment plants not otherwise specified**

- 19 08 01 screenings
- 19 08 02 waste from desanding

---

<sup>3</sup> Stabilisation processes change the dangerousness of the constituents in the waste and thus transform hazardous waste into non-hazardous waste. Solidification processes only change the physical state of the waste (e.g. liquid into solid) by using additives without changing the chemical properties of the waste.

<sup>4</sup> A waste is considered as partly stabilised if, after the stabilisation process, dangerous constituents which have not been changed completely into non-dangerous constituents could be released into the environment in the short, middle or long term.

- 19 08 05 sludges from treatment of urban waste water
- 19 08 06\* saturated or spent ion exchange resins
- 19 08 07\* solutions and sludges from regeneration of ion exchangers
- 19 08 08\* membrane system waste containing heavy metals
- 19 08 09 grease and oil mixture from oil/water separation containing only edible oil and fats
- 19 08 10\* grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
- 19 08 11\* sludges containing dangerous substances from biological treatment of industrial waste water
- 19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
- 19 08 13\* sludges containing dangerous substances from other treatment of industrial waste water
- 19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
- 19 08 99 wastes not otherwise specified

**19 09 wastes from the preparation of water intended for human consumption or water for industrial use**

- 19 09 01 solid waste from primary filtration and screenings
- 19 09 02 sludges from water clarification
- 19 09 03 sludges from decarbonation
- 19 09 04 spent activated carbon
- 19 09 05 saturated or spent ion exchange resins
- 19 09 06 solutions and sludges from regeneration of ion exchangers
- 19 09 99 wastes not otherwise specified

**19 10 wastes from shredding of metal-containing wastes**

- 19 10 01 iron and steel waste
- 19 10 02 non-ferrous waste
- 19 10 03\* fluff-light fraction and dust containing dangerous substances
- 19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03
- 19 10 05\* other fractions containing dangerous substances
- 19 10 06 other fractions other than those mentioned in 19 10 05

**19 11 wastes from oil regeneration**

- 19 11 01\* spent filter clays
- 19 11 02\* acid tars
- 19 11 03\* aqueous liquid wastes
- 19 11 04\* wastes from cleaning of fuel with bases
- 19 11 05\* sludges from on-site effluent treatment containing dangerous substances
- 19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05
- 19 11 07\* wastes from flue-gas cleaning
- 19 11 99 wastes not otherwise specified

**19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**

- 19 12 01 paper and cardboard

- 19 12 02 ferrous metal
- 19 12 03 non-ferrous metal
- 19 12 04 plastic and rubber
- 19 12 05 glass
- 19 12 06\* wood containing dangerous substances
- 19 12 07 wood other than that mentioned in 19 12 06
- 19 12 08 textiles
- 19 12 09 minerals (for example sand, stones)
- 19 12 10 combustible waste (refuse derived fuel)
- 19 12 11\* other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
- 19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

**19 13 wastes from soil and groundwater remediation**

- 19 13 01\* solid wastes from soil remediation containing dangerous substances
- 19 13 02 solid wastes from soil remediation other than those mentioned in 19 13 01
- 19 13 03\* sludges from soil remediation containing dangerous substances
- 19 13 04 sludges from soil remediation other than those mentioned in 19 13 03
- 19 13 05\* sludges from groundwater remediation containing dangerous substances
- 19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05
- 19 13 07\* aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances
- 19 13 08 aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07

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

**20 01 separate fractions (except 15 01)**

- 20 01 01 paper and cardboard
- 20 01 02 glass
- 20 01 08 biodegradable kitchen and canteen waste
- 20 01 10 clothes
- 20 01 11 textiles
- 20 01 13\* solvents
- 20 01 14\* acids
- 20 01 15\* alkalines
- 20 01 17\* photochemicals
- 20 01 19\* pesticides
- 20 01 21\* fluorescent tubes and other mercury-containing waste
- 20 01 23\* discarded equipment containing chlorofluorocarbons
- 20 01 25 edible oil and fat
- 20 01 26\* oil and fat other than those mentioned in 20 01 25
- 20 01 27\* paint, inks, adhesives and resins containing dangerous substances
- 20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27
- 20 01 29\* detergents containing dangerous substances
- 20 01 30 detergents other than those mentioned in 20 01 29

- 20 01 31\* cytotoxic and cytostatic medicines
  - 20 01 32\* medicines other than those mentioned in 20 01 31
  - 20 01 33\* batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
  - 20 01 34 batteries and accumulators other than those mentioned in 20 01 33
  - 20 01 35\* discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components<sup>5</sup>
  - 20 01 36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
  - 20 01 37\* wood containing dangerous substances
  - 20 01 38 wood other than that mentioned in 20 01 37
  - 20 01 39 plastics
  - 20 01 40 metals
  - 20 01 41 wastes from chimney sweeping
  - 20 01 99 fractions not otherwise specified
- 20 02 garden and park wastes (including cemetery waste)**
- 20 02 01 biodegradable waste
  - 20 02 02 soil and stones
  - 20 02 03 other non-biodegradable wastes
- 20 03 other municipal wastes**
- 20 03 01 mixed municipal waste
  - 20 03 02 waste from markets
  - 20 03 03 street-cleaning residues
  - 20 03 04 septic tank sludge
  - 20 03 06 waste from sewage cleaning
  - 20 03 07 bulky waste
  - 20 03 99 municipal wastes not otherwise specified

---

<sup>5</sup> Hazardous components from electrical and electronic equipment may include accumulators and batteries mentioned in 16 06 and marked as hazardous; mercury switches, glass from cathode ray tubes and other activated glass etc.

## Annex 5

### DEFINING THE QUALITY OF MUNICIPAL WASTEWATER SLUDGE AND INFORMATION TO BE PROVIDED TO SUPERVISORY AUTHORITIES

#### 1. Defining the quality of municipal wastewater sludge

A facility producing municipal wastewater sludge shall, if necessary, analyse the concentrations of heavy metals and other harmful substances and the total nitrogen and total phosphorus concentrations contained in the sludge.

The sludge samples shall have the same properties as the sludge delivered from the treatment plant for recovery or disposal. Sludge quality shall be defined at least once every two years. In order to monitor fluctuations in the quality of sludge delivered for agricultural use, the quality must initially be defined at short intervals. If there is little fluctuation in the results during the first year, the frequency of analyses can be decreased. The frequency of analyses of sludge delivered for agricultural use shall be determined by the size of the treatment plant as follows:

Population equivalent	Frequency of analyses/year	
	First year	Subsequent years

> 100,000	≥ 12	≥ 4
> 40,000–100,000	≥ 6	≥ 3
> 5,000–40,000	≥ 4	≥ 2
200–5,000	≥ 1	≥ 1
< 200	≥ 1	at least once every two years

If the quality of the incoming sewage has altered significantly, the frequency of analyses shall be increased to at least the level required during the first year.

The quality of the sludge shall be analysed by a reliable laboratory. At least the concentrations in the sludge of the following substances shall be determined:

- total nitrogen ( $N_{\text{tot}}$ )
- total phosphorus ( $P_{\text{tot}}$ )
- cadmium, chromium, copper, nickel, lead and zinc
- mercury

The analyses shall be conducted in compliance with a standard confirmed by the European Committee for Standardization (CEN) or the International Organisation for Standardization (ISO) for determining the quality of sludge.

## **2. Information to be provided to supervisory authorities**

In accordance with section 18, the facility producing municipal wastewater sludge shall provide the supervisory authorities with a summary of the following information on municipal wastewater sludge:

- the quantity of sludge produced
- pre-treatment of the sludge to reduce pathogens and organisms harmful to plant health
- properties describing the quality of sludge, determined in accordance with Part 1 of this annex
- the quantity of sludge recovered or disposed of, and the method of recovery or disposal, including the quantity of sludge delivered for agricultural use