Unofficial Translation

Only the Thai version of the text is legally binding.

Notification of Ministry of Industry

Subject: Management of Waste or Unused Materials

B.E. 2566 (2023)

By virtue of the provisions of Article 6, paragraph one, of the Factory Act B.E. 2535 (1992), amended by the Factory Act (No.2) (B.E. 2562 (2019)) and Article 18 of the Ministerial Regulation No. 2 (B.E. 2535 (1992)) issued under the Factory Act B.E. 2535 (1992), Article 13 (3) of the Ministerial Regulation No. 2 (B.E. 2535 (1992)) issued under the Factory Act B.E. 2535 (1992) as amended by the Ministerial Regulation No. 22 (B.E. 2556 (2013)) issued under the Factory Act B.E. 2535 (1992) in conjunction with Article 1 of the Ministerial Regulation No. 3 (B.E. 2535 (1992)) issued under the Factory Act B.E. 2535 (1992), Article 7 of Ministerial Regulation No. 3 (B.E. 2535 (1992)) issued under the Factory Act B.E. 2535 (1992), which was added by Ministerial Regulation No. 27 (B.E. 2563 (2020)) issued under the Factory Act B.E. 2535 (1992) and Article 8 of the Ministerial Regulation No. 3 (B.E. 2535(1992)), issued under the Factory Act B.E. 2535 (1992), which was added by the Ministerial Regulation No. 28 (B.E. 2566 (2023)) issued under the Factory Act B.E. 2535 (1992), the Minister of Industry hereby issues the following notification:

Article 1 This Notification is referred to as the "Notification of Ministry of Industry Subject: Management of Waste or Unused Materials, B.E. 2566 (2023)."

Article 2 The following notifications shall be repealed:

(1) Notification of Ministry of Industry Subject: Criteria and Procedures for Reporting Details of Waste or Unused Materials from Factories through Electronic Media (Internet), B.E. 2547 (2004).

(2) Notification of Ministry of Industry Subject: Disposal of Waste or Unused Materials, B.E. 2548 (2005).

(3) Notification of Ministry of Industry Subject: Disposal of Waste or Unused Materials (No. 2), B.E. 2560 (2017).

(4) Notification of Ministry of Industry Subject: Disposal of Waste or Unused Materials (No. 3), B.E. 2566 (2023).

Article 3 This notification shall be enforced from 1 November 2023 onwards, except for the provisions in Article 13 and Article 22 shall be enforced from the day following the date of publication in the Government Gazette.

Article 4 This notification shall be enforced for factory operators in accordance with the List annexed to Ministerial Regulation under Article 7 of the Factory Act, B.E. 2535 (1992) and its amendment.

Article 5 This notification shall not enforce with the following waste or unused materials:

(1) Excrement or urine generated within the factory premises

(2) Unused materials which are non-hazardous waste, including those generated from offices, residential accommodations, and canteens within the factory premises and those generated from the consumables within the factory premises.

(3) Wastewater generated from factory operations which have not been treated and discharged through pipelines for external treatment outside the factory premises.

(4) Unused materials of pressure-resisting gas containers that can be reused or refilled.

Article 6 Unless otherwise specified in this notification

"Waste" refers to excrement or urine within the factory premises generated by factory operators, and it also includes animal manure or other wastes within the factory premises generated by operators, as prescribed in Annex 1 annexed to the notification.

"Unused materials " refers to any materials or objects within the factory premises that are no longer used or intended for their original purpose, or do not meet the quality, or are not utilized. These materials can be either hazardous or non-hazardous waste, regardless of their commercial values, or by-products as prescribed in Annex 1 annexed to the notification, excluding infectious medical waste in accordance with the law on public health and radioactive waste in accordance with the law on nuclear energy for peace.

“Hazardous waste” refers to unused materials that contain or are contaminated with hazardous substances, or possess hazardous characteristics and properties as prescribed in the Annex 2 annexed to the Notification.

“Management" refers to the process of handling waste or unused materials through methods such as detoxification, disposal, recycling, and landfill management by specific methods and locations or other treatments, as prescribed in the Annex 3 annexed to the Notification.

“Generator” refers to the factory operator as defined in Article 4, who generates waste or unused materials.

“Processor” refers to the person who manages the disposal of waste or unused materials from the generator.

“Management documentation” refers to the documents issued by the generator through the central data reporting system of the Ministry of Industry, which serve as evidence for the transfer of waste or unused materials to the processor for proper management until completion.

"Raw materials" refers to waste or unused materials, as defined in the Notification, which are sent from the generator to the processor for management. Materials include mixed fuels, composite materials, alternative fuels, and waste generated from other sources from non-factories, and in accordance with operations of the authorized processor.

“Director-General” refers to the Director-General of the Department of Industrial Works.

Chapter 1

Generators

Article 7 To ensure safety in the factory for the storage of waste or unused materials, the generator must take actions as follows:

(1) Clearly distinguish the waste or unused materials from hazardous and non-hazardous categories by storing them separately.

(2) Inspect the waste or unused material containers used to ensure their safe working condition and containers are properly labeled. The labelling shall include at least the generator's name, the name and code of the category or type of the waste or unused material, the start and closure dates of containment of waste or unused materials.

(3) In cases where waste or unused materials storage is not managed, the adequate and suitable facilities shall be arranged. The storage area shall be well-maintained and consistently kept clean by displaying noticeable signs/signages and symbols in order to ensure safety, such as prohibition signs, warning signs, and mandatory signs in the area designated for the storage of waste or unused materials.

In the case of storing waste or unused materials inside a building, the building structure shall be strong and stable, equipped with appropriate ventilation. Adequate space shall be arranged for safe storage, and the containment system for waste and unused materials shall be installed within the building in case of leakages or spills.

In the case of storing waste or unused materials in an open area, the storage area shall be strong and stable with sufficient space for safe storage. The containment system for waste and unused materials shall be in place within the factory to prevent leaks or spills by installing system to prevent contamination and dispersion into the air, soil, water sources, and underground water resulting from leaks or spills. When waste and unused materials are stored, characteristics or properties of the waste or unused materials shall be considered in relation to the environmental conditions such as temperature, humidity, heat, sunlight, and vibrations that may cause hazardous chemical reactions.

(4) The waste or unused material storage layout shall be kept updated and ready for inspection by the authorities.

Article 8 When managing waste or unused materials within the factory premises, it shall be handled with appropriate and academic principles to ensure safety and not to harm the environment, in accordance with the criteria, methods, and conditions prescribed by the Director-General.

Article 9 The generator is prohibited from taking waste or unused materials outside the factory premises except receiving the approval by the Director-General or authorities designated by the Director-General to manage them in accordance with the criteria, methods, and conditions prescribed by the Director-General.

The permit to remove waste or unused materials from the factory premises according to paragraph one, Form GorOr.1 attached here to shall be used.

The permit in accordance with paragraph two and paragraph one shall be carried out through the electronic system or automated electronic system as the primary method in accordance with the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette.

In case where the permit application cannot be done in accordance with paragraph three, the application shall be carried out at the office of the Department of Industrial Works.

Article 10 After the permit is issued in accordance with Article 9, prior to the removal of waste or unused materials from the factory premises, details of management shall be notified in accordance with the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette.

Article 11 After the permit is issued in accordance with Article 9, the Director-General or the authorized person has the authority to suspend the removal of waste or unused materials from the factory premises as prescribed in Article 9, in case where:

(1) The processor shall comply with or be in the process of complying with the orders issued under Article 37 or Article 39, as applicable, specifically the management of waste or unused materials.

(2) The processor fails to manage in accordance with Article 9

When the processor complies with the orders as stated in (1) or takes appropriate actions as stated in (2), the Director-General or the authorized person has the authority to lift the suspension prescribed in paragraph one.

Article 12 The generator takes responsibility for transporting waste or materials to the designated processor. In the case where waste and unused materials are transported, the transporting vehicles shall be tracked and monitored in accordance with the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette..

In the case where waste or unused materials are taken out of the factory for management; however, it appears that such waste or unused materials are not handled in accordance with the permit under Article 9. Such waste or unused materials are considered not being managed. The generator is obligated to complete handling waste or unused materials in accordance with the permit.

The provision in paragraph two includes loss, accidents, or unauthorized disposal.

Article 13 The generator shall report the storage which does not comply with Article 7 and the handling of waste or unused materials within the factory in accordance with Article 8 in the previous year to the Department of Industrial Works by 1 April of the following year. The reporting shall be done electronically through the central data reporting system of the Ministry of Industry.

For reporting in accordance with paragraph one for the fiscal year 2022, the report shall be submitted within thirty days from the day following the date of its publication in the Government Gazette.

Article 14 The generator shall control the processor for managing the waste or unused materials, to strictly comply with Chapter 2.

In the case where the generator is notified by the processor that management of waste and unused materials cannot be completed in accordance with Article 20, paragraph three, the generator shall notify the Director-General or designated authorities within five days since the date when the notification is received from the processor. The generator applies for the permit in accordance with Article 9 in order to transfer waste or unused materials to another processor within thirty days since the date when the notification is received from the previous processor. The generator shall receive the permit in accordance with Article 9 prior to transferring to waste or unused materials to another processor.

The notification to the Director-General or designated authorities, in accordance with paragraph two, shall comply with the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette.

Article 15 In the event of analyzing the characteristics and properties of unused materials for the purpose of considering the permit under Article 9, the analysis shall be conducted by a registered laboratory under the Department of Industrial Works, a laboratory under a government agency, or under a state-supervised agency, or a laboratory internationally certified and recognized by the Department of Industrial Works.

Chapter 2

Processors

Article 16 The waste processor who is not authorized in accordance with Article 9 is prohibited from handling or managing any waste or unused materials in a factory excluding the case that waste and unused materials are non-hazardous which are exempted from complying with Article 9 and in accordance with the authorized operations of the processors.

Article 17 When unused materials are transported into the factory, the waste processors shall inspect and/or collect samples using random sampling methods to identify the essential characteristics which will be confirmed or indicated that the unused materials are in accordance with Article 9 (Fingerprinting) every time such as picture, color, specific gravity, phase, flash point, pH value, halogen content, cyanide content, percent water, activation value per dose, or overall radioactivity, etc. The Fingerprint Report and management documentations shall be submitted to the generator.

If the inspection is conducted in accordance with paragraph one, and it appears that the unused materials do not comply with the authorized operation requirements, the waste processors shall promptly notify the generator in accordance with the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette.

Article 18 The waste processor shall notify details indicating the management practices in accordance with the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette.

Article 19 Raw materials received by the waste processor shall be managed as follows:

(1) Clearly separate and store hazardous raw materials from non-hazardous raw materials.

(2) Inspect received raw material containers to ensure safety and proper condition. Labelling on the containers shall include the name of the generator, the name and code of the type or category of the waste and unused materials, the start and closure dates of containment.

(3) Provide adequate and suitable storage facilities and the storage area shall be well-maintained and consistently kept clean by displaying noticeable signs/signages and symbols in order to ensure safety, such as prohibition signs, warning signs, and mandatory signs in the area designated for the storage.

In the case that raw materials are stored inside a building, the building structure shall be strong, stable and well-ventilated Adequate space shall be arranged for safe storage, and the containment system shall be installed within the building in case of leakages or spills.

In the case of storing raw materials in an open area, the storage area shall be strong and stable with sufficient space for safe storage. The containment system shall be in place within the factory to prevent leaks or spills by installing system to prevent contamination and dispersion into the air, soil, water sources, and underground water resulting from leaks or spills. When raw materials are stored, characteristics or properties shall be considered in relation to the environmental conditions such as temperature, humidity, heat, sunlight, and vibrations that may cause hazardous chemical reactions.

In the case of storing raw materials in consolidated storages, such as in a tank farm, holding tank, underground storage tank, or bulk storage, it is necessary to prepare the listing of each raw material item detailing the generator's name, name and code of the type or category of the raw material, quantity, and the start date of storing items.

(4) The raw material storage layout shall be kept updated and ready for inspection by the authorities.

Article 20 When the waste processor obtains non-hazardous raw materials, the waste processor shall complete management within sixty days from the date of receipt of raw materials with the exemption that the non-hazardous waste generated from biological residues by fertilizer composting and soil conditioner shall be managed within one hundred and eighty days from the date of receipt of raw materials. Hazardous waste raw materials shall be completely managed within thirty days from the date of receipt of raw materials.

In the event of necessity to extend the management timeframe as prescribed in paragraph one, the generator shall be notified at least five days prior to expiration of the designated

timeframe as prescribed in paragraph one. However, the extension of the management timeframe shall not exceed the timeframe as prescribed in paragraph one, case by case.

In the event that the waste processor is unable to manage the waste within the timeframe as prescribed in paragraph one or paragraph two, the generator shall be notified at least five days prior to expiration of the designated timeframe and shall be followed up to ensure that the generator complies with Article 14, paragraph two. If the generator fails to comply, the waste processor shall promptly notify the Department of Industrial Works.

The notifications in accordance with paragraph two and paragraph three shall adhere to the criteria, methods, and conditions prescribed by the Director-General and to be published in the Government Gazette

Article 21 The waste processor shall prepare accident prevention and emergency response plans covering incidents such as leaks, fires, explosions, or unforeseen events at the factory.

Article 22 The waste processor shall prepare monthly reports on the management of raw materials and products by the 15th day of the following month. These reports shall be electronically submitted through the central data reporting system of the Ministry of Industry.

Chapter 3

Transitory Provisions

Article 23 All regulations, notifications, or criteria issued by the Ministry of Industry on Disposal of Waste or Unused Materials B.E. 2548 (2005), come into force prior to the enforcement date of this notification, shall remain in force insofar as they are not contrary to or inconsistent with this Notification until new regulations, notifications, or criteria issued in accordance with the Notification is to be enforced.

Article 24 Possession of waste or unused materials, permitted under Article 6 of the Notification of the Ministry of Industry on the disposal of waste or unused material, B.E. 2548 (2005) shall remain valid as of the enforcement date of this Notification until expiration of its specified period.

Article 25 The approval of the Department of Industrial Works in accordance with Article 1 of Annex 4 annexed to the Notification of the Ministry of Industry on Disposal of Waste or Unusable Materials B.E.2548 (2005) shall remain valid as of the enforcement date of this Notification until expiration of its specified period.

In the case where the approval as prescribed in the paragraph one does not include the specified period, the specified period shall end as of the enforcement date of this Notification.

Article 26 Permit issued to remove waste or unused materials from the factory premises in accordance with the Notification of Ministry of Industry's on the Disposal of Waste or Unused Materials B.E. 2548 (2005) amended by the Notification of Ministry of Industry's on the Disposal of Waste or Unused Materials (No. 2), B.E. 2560 (2017), remains valid until expiration of its specified period in the permit.

Article 27 Permit issued to remove waste or unused materials from the factory premises, in accordance with the Notification of Ministry of Industry on the Disposal of Waste or Unused Materials B.E. 2548 (2005), amended by the Notification of Ministry of Industry on the Disposal of

Waste or Unused Materials (No. 2), B.E. 2560 (2017), which is pending for consideration, shall be deemed as the application under Article 9 of the Notification as of the enforcement date of this Notification mutatis mutandis.

To consider the permit application as prescribed in paragraph one, the competent official may notify the applicant to amend the application or information as deemed necessary.

Article 28 The generator who has submitted an annual report to the Department of Industrial Works in accordance with the Notification of Ministry of Industry on the Disposal of Waste or Unused Materials, B.E. 2548 (2005), as amended, whose report is for the Year B.E. 2565 (2022), shall be deemed as the report under Article 13 of the Fiscal Year B.E. 2565 (2022) of the Notification.

Announced on 16 March 2023

Suriya Juangroongruangkit

Minister of Industry

(Published in the Government Gazette, Volume 140, Special Part 126 Ngor, dated 31st May B.E. 2566 (2023))

Annex 1

Waste or Unused material Code

No. 1 Waste or unused materials are classified into 19 chapters and six-digit code is used as specific waste or unused material code as follows:

1.1 The first two digit represents type of industrial activity or type of wastes as follows:

Chapter 01	Exploration, mining, quarrying, physical and chemical treatment of minerals
Chapter 02	Agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
Chapter 03	Wood processing and the production of panels and furniture, pulp, paper, and cardboard including downstream products
Chapter 04	Leather, fur, and textile industries including downstream products
Chapter 05	Petroleum refining, natural gas purification and pyrolytic treatment of coal
Chapter 06	Inorganic chemical processes
Chapter 07	Organic chemical processes
Chapter 08	The manufacture, formulation, supply, and use (MFSU) of coatings (paints, varnishes, and vitreous enamels), adhesives, sealant, and printing inks
Chapter 09	Photographic industry
Chapter 10	Thermal processes
Chapter 11	Chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
Chapter 12	Shaping and physical and mechanical surface treatment of metals, plastics, and materials unspecified in another code by physical and mechanical process
Chapter 13	Oil wastes and wastes of liquid fuels (except edible oils)
Chapter 14	Organic solvents, refrigerants, and propellants (excluding wastes in 07 and 08)

Chapter 15	Packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
Chapter 16	Business operation and unused material type which are not otherwise specified in the list
Chapter 17	Construction and demolition (including excavated soil from contaminated sites)
Chapter 18	Human or animal health care and/or related research
Chapter 19	Waste management facilities, off-site wastewater treatment plants and the preparation of water intended for human consumption, water for industrial use, and air pollution treatment not classified in other categories.

1.2 The middle two digit represents specific process for such industrial activity which generates waste or unused material or represents type of waste or unused materials.

1.3 The last two digit represents specific waste or unused material type. For example, 05 07 01 means waste or unused materials resulting from petrochemical industry (05) in the process of natural gas purification (07) which is contaminated with mercury (01).

No. 2 To determine appropriate specific code for certain waste or unused materials, use the following procedure.

2.1 Consider the entries in Chapters 01 to 12 and 17 to 19 of the table and select the appropriate six-digit code. However, it should be noted that six-digit codes ending “99” should not be used at this stage.

2.2 If a suitable waste or unused material code cannot be found in 2.1, an appropriate six-digit code from Chapters 13 to 15 should be used.

2.3 If a suitable waste or unused material code cannot be found in Chapters 13 to 15, a six-digit code from Chapter16 should be used to identify the waste or unused materials.

2.4 Only if no suitable six-digit code can be found in Chapter 16 should a six-digit code ending “99” in associated chapter in 2.1 be used.

No.3 Any unused material whose six-digit code is marked with “HA” (Hazardous waste – Absolute entry) or “HM” (Hazardous waste – Mirror entry) is considered as a hazardous waste according to characteristics and properties prescribed in Annex 2. The unused material that is marked with “HM”, analysis should be performed according to criteria as prescribed in Annex 2 to demonstrate whether unused materials are hazardous or not according to characteristics and properties, as prescribed the Notification.

No.4 Six-digit code of waste or unused materials under this Notification shall be as follows:

01	**Wastes resulting from exploration, mining, quarrying, 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	HA	Acid-generating tailings from processing of sulfide ore
01 03 05	HM	Other tailings containing dangerous substances
01 03 06		Tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 07	HM	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 10	HM	Red mud from alumina production containing hazardous substances
01 03 99		Wastes not otherwise specified
01 04		***Wastes from physical and chemical processing of non-metalliferous minerals***
01 04 07	HM	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	HA	Oil-containing drilling muds and wastes
01 05 06	HM	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 feces, urine, and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07		Wastes from forestry
02 01 08	HM	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 95		Liquid digestate or whole digestate from fully mineralized anaerobic treatment of organic waste

02 03 96		Liquid digestate or whole digestate from anaerobic treatment of organic waste
02 03 97		Solid digestate from fully mineralized anaerobic treatment of organic waste
02 03 98		Solid digestate from anaerobic treatment of organic waste
02 03 99		Wastes not otherwise specified
02 04		***Wastes from sugar processing***
02 04 01		Soil from cleaning and washing
02 04 02		Off-specification calcium carbonate
02 04 03		Sludges from on-site effluent treatment
02 04 04		Materials unsuitable for consumption or processing
02 04 80	HA	Spent lead subacetate
02 04 81	HA	Filter paper contaminated with lead subacetate
02 04 82	HA	Filtrate containing lead subacetate
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
02 08		***Wastes from the production of natural rubber***
02 08 01		Wastes from washing, cleaning, and mechanical reduction of raw materials

02 08 02	HM	Waste from precipitation of rubber latex prior to centrifugation containing hazardous substances
02 08 03		Waste from precipitation of rubber latex prior to centrifugation other than those mentioned in 02 08 02
02 08 04		Rubber residues unsuitable for processing
02 08 05		Waste former
02 08 06	HM	Sludges from on-site effluent treatment containing hazardous substances
02 08 07		Sludges from on-site effluent treatment other than those mentioned in 02 08 06
02 08 99		Wastes not otherwise specified
02 09		***Wastes from the production of ethyl alcohol from plant***
02 09 01		Sludges from washing, cleaning, and mechanical reduction of raw materials
02 09 02		Wastes from distillation
02 09 03		Wastes from chemical treatment
02 09 04		Materials unsuitable for consumption or processing
02 09 05		Sludges from on-site effluent treatment
02 09 99		Wastes not otherwise specified
03	**Wastes from wood processing and the production of panels and furniture, pulp, paper, and cardboard including downstream products**	
03 01		***Wastes from wood processing and the production of panels and furniture and other downstream products***
03 01 01		Waste bark and cork
03 01 04	HM	sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances
03 01 05		sawdust, shavings, cuttings, wood, 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	HA	Non-halogenated organic wood preservatives
03 02 02	HA	Organochlorinated wood preservatives
03 02 03	HA	Organometallic wood preservatives
03 02 04	HA	Inorganic wood preservatives
03 02 05	HM	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 including other downstream products***

03 03 01		Waste bark and cork
03 03 02		Green liquor sludge (from recovery of cooking liquor)
03 03 05	HM	De-inking sludges from paper recycling
03 03 07		Mechanically separated rejects from pulping of wastepaper and cardboard
03 03 08		Wastes from sorting of paper and cardboard destined for recycling
03 03 09		Lime mud waste
03 03 10		Fiber rejects, fiber-, filler- and coating-sludges from mechanical separation
03 03 11	HM	Sludges from on-site effluent treatment containing hazardous substances
03 03 12		Sludges from on-site effluent treatment other than those mentioned in 03 03 11
03 03 13		Pulp and paper shavings
03 03 99		Wastes not otherwise specified
04	**Wastes from the leather, fur, and textile industries *including downstream products***	
04 01		***Wastes from the leather and fur industry including other downstream products***
04 01 01		Fleshing and lime split wastes
04 01 02	HM	Liming waste
04 01 03	HM	Degreasing wastes containing solvents without a liquid phase
04 01 04	HM	Tanning liquor containing chromium
04 01 05		Tanning liquor free of chromium i.e., vegetable-tanning liquor
04 01 06	HM	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	HM	Waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	HM	Wastes from dressing and finishing
04 01 10		Waste tanned leather (green sheetings, shavings, cuttings, buffing dust) other than those mentioned in 04 01 08
04 01 11		Wastes from dressing and finishing other than those mentioned in 04 01 09
04 01 99		Wastes not otherwise specified
04 02		***Wastes from the textile industry including downstream products***
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	HM	Wastes from finishing containing organic solvents
04 02 15		Wastes from finishing other than those mentioned in 04 02 14

04 02 16	HM	Dyestuffs and pigments containing dangerous substances
04 02 17		Dyestuffs and pigments other than those mentioned in 04 02 16
04 02 19	HM	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	HA	Desalter sludges
05 01 03	HA	Tank bottom sludges
05 01 04	HA	Acid alkyl sludges
05 01 05	HA	Oil spills
05 01 06	HA	Oily sludges from maintenance operations of the plant or equipment
05 01 07	HA	Acid tars
05 01 08	HA	Other tars
05 01 09	HM	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	HA	Wastes from cleaning of fuels with bases
05 01 12	HM	Oil containing acids
05 01 13		Boiler feedwater sludges
05 01 14		Wastes from cooling columns
05 01 15	HA	Spent filter clays
05 01 16		Sulfur-containing wastes from petroleum desulfurisation
05 01 17		Bitumen
05 01 18	HA	Sludge and residues from coking
05 01 99		Wastes not otherwise specified
05 06	***Wastes from the pyrolytic treatment f coal***	
05 06 01	HA	Acid stars
05 06 03	HA	Other tars
05 06 04		Wastes from cooling columns
05 06 99		Wastes not otherwise specified

05 07		***Wastes from natural gas purification and transportation***
05 07 01	HM	Wastes containing mercury
05 07 02		Wastes containing sulfur
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	HA	Sulfuric acid and sulfurous acid
06 01 02	HA	Hydrochloric acid
06 01 03	HA	Hydrofluoric acid
06 01 04	HA	Phosphoric and phosphorus acid
06 01 05	HA	Nitric acid and nitrous acid
06 01 06	HA	Other acids
06 01 99		Wastes not otherwise specified
06 02		***Wastes from the MSFU of bases***
06 02 01	HA	Calcium hydroxide
06 02 03	HA	Ammonium hydroxide
06 02 04	HA	Sodium and potassium hydroxide
06 02 05	HA	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	HM	Solid salts and solutions containing cyanides
06 03 13	HM	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	HM	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	HM	Wastes containing arsenic
06 04 04	HM	Wastes containing mercury
06 04 05	HM	Wastes containing other heavy metals
06 04 99		Wastes not otherwise specified
06 05		***Sludges from on-site effluent treatment***

06 05 02	HM	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 sulfur chemicals, sulfur chemical processes and desulfurisation processes***
06 06 02	HM	Wastes containing dangerous sulfides
06 06 03		Wastes containing sulfides 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	HM	Wastes containing asbestos from electrolysis
06 07 02	HA	Activated carbon from chlorine production
06 07 03	HM	Barium sulfate sludge containing mercury
06 07 04	HA	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	HM	Wastes containing dangerous silicones such as chlorosilanes
06 08 99		Wastes not otherwise specified
06 09		***Wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes***
06 09 02		Phosphorous slag
06 09 03	HM	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 fertilizer manufacture***
06 10 02	HM	Wastes containing dangerous substances
06 10 99		Wastes not otherwise specified
06 11		***Wastes from the manufacture of inorganic pigments and opacificiers***
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	HA	Inorganic plant protection products, wood-preserving agents and other biocides
06 13 02	HA	Spent activated carbon (except 06 07 02)
06 13 03	HA	Carbon black

06 13 04	HA	Wastes from asbestos processing
06 13 05	HA	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	HA	Aqueous washing liquids and mother liquors
07 01 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 01 04	HA	Other organic solvents, washing liquids and mother liquors
07 01 07	HA	Halogenated still bottoms and reaction residues
07 01 08	HA	Other still bottoms and reaction residues
07 01 09	HA	Halogenated filter cakes and spent absorbents
07 01 10	HA	Other filter cakes and spent absorbents
07 01 11	HM	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	HA	Aqueous washing liquids and mother liquors
07 02 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 02 04	HA	Other organic solvents, washing liquids and mother liquors
07 02 07	HA	Halogenated still bottoms and reaction residues
07 02 08	HA	Other still bottoms and reaction residues
07 02 09	HA	Halogenated filter cakes and spent absorbents
07 02 10	HA	Other filter cakes and spent absorbents
07 02 11	HM	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	HM	Wastes from additives containing dangerous substances
07 02 15		Wastes from additives other than those mentioned in 07 02 14
07 02 16	HM	Wastes containing dangerous silicones such as chlorosilanes
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	HA	Aqueous washing liquids and mother liquors
07 03 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 03 04	HA	Other organic solvents, washing liquids and mother liquors
07 03 07	HA	Halogenated still bottoms and reaction residues
07 03 08	HA	Other still bottoms and reaction residues
07 03 09	HA	Halogenated filter cakes and spent absorbents
07 03 10	HA	Other filter cakes and spent absorbents
07 03 11	HM	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	HA	Aqueous washing liquids and mother liquors
07 04 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 04 04	HA	Other organic solvents, washing liquids and mother liquors
07 04 07	HA	Halogenated still bottoms and reaction residues
07 04 08	HA	Other still bottoms and reaction residues
07 04 09	HA	Halogenated filter cakes and spent absorbents
07 04 10	HA	Other filter cakes and spent absorbents
07 04 11	HM	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	HM	Solid wastes containing dangerous substances
07 04 99		Wastes not otherwise specified
07 05		***Wastes from the MFSU of pharmaceuticals***
07 05 01	HA	Aqueous washing liquids and mother liquors
07 05 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 05 04	HA	Other organic solvents, washing liquids and mother liquors
07 05 07	HA	Halogenated still bottoms and reaction residues
07 05 08	HA	Other still bottoms and reaction residues
07 05 09	HA	Halogenated filter cakes and spent absorbents
07 05 10	HA	Other filter cakes and spent absorbents
07 05 11	HM	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	HM	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	HA	Aqueous washing liquids and mother liquors
07 06 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 06 04	HA	Other organic solvents, washing liquids and mother liquors
07 06 07	HA	Halogenated still bottoms and reaction residues
07 06 08	HA	Other still bottoms and reaction residues
07 06 09	HA	Halogenated filter cakes and spent absorbents
07 06 10	HA	Other filter cakes and spent absorbents
07 06 11	HM	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	HA	Aqueous washing liquids and mother liquors
07 07 03	HA	Organic halogenated solvents, washing liquids and mother liquors
07 07 04	HA	Other organic solvents, washing liquids and mother liquors
07 07 07	HA	Halogenated still bottoms and reaction residues
07 07 08	HA	Other still bottoms and reaction residues
07 07 09	HA	Halogenated filter cakes and spent absorbents
07 07 10	HA	Other filter cakes and spent absorbents
07 07 11	HM	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
07 08		***Wastes from the MFSU of organic fine chemicals and chemical products not otherwise specified (which utilize agricultural products or agricultural downstream products as raw materials in biochemical processes without the use of solvent extraction e.g., bioplastic, polyphenol, cannabidiol (CBD), tetrahydro cannabinol (THC)***
07 08 01	HM	Aqueous washing liquids and other liquors containing hazardous substances
07 08 02		Aqueous washing liquids and other liquors other than those mentioned in 07 08 01

07 08 03	HM	Bottoms and reaction residues containing hazardous substances
07 08 04		Other still bottoms and reaction residues other than those mentioned in 07 08 03
07 08 05	HM	Filter cakes and spent absorbents containing hazardous substances
07 08 06		Other filter cakes and spent absorbents other than those mentioned in 07 08 05
07 08 07	HM	Sludges from on-site effluent treatment containing hazardous substances
07 08 08		Sludges from on-site effluent treatment other than those mentioned in 07 08 07
07 08 09		Wastes bioplastic
07 08 10	HM	Wastes from additives containing hazardous substances
07 08 11		Wastes from additives other than those mentioned in 07 08 10
07 08 99		Wastes not otherwise specified
07 09		***Wastes from the biofuel production***
07 09 01		Still bottoms and reaction residues
07 09 02		Waste glycerol
07 09 03	HA	Organic used solvents
07 09 04		Filter cakes, spent absorbents and bleaching clay
07 09 05	HM	Sludges from on-site effluent treatment containing hazardous substances
07 09 06		Sludges from on-site effluent treatment other than those mentioned in 07 09 05
07 09 99		Wastes not otherwise specified
08	**Wastes from the manufacture, formulation, supply, and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealant and printing inks**	
08 01		***Wastes from MFSU and removal of paint and varnish***
08 01 11	HM	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	HM	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	HM	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	HM	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	HM	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	HA	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	HM	Aqueous sludges containing ink
08 03 08	HM	Aqueous liquid waste containing ink
08 03 12	HM	Waste ink containing dangerous substances
08 03 13		Waste ink other than those mentioned in 08 03 12
08 03 14	HM	Ink sludges containing dangerous substances
08 03 15		Ink sludges other than those mentioned in 08 03 14
08 03 16	HA	Waste etching solutions
08 03 17	HM	Waste printing toner containing dangerous substances
08 03 18		Waste printing toner other than those mentioned in 08 03 17
08 03 19	HA	Disperse oil
08 03 99		Wastes not otherwise specified
08 04		***Wastes from MFSU of adhesives and sealant (including waterproofing products)***
08 04 09	HM	Waste adhesives and sealant containing organic solvents or other dangerous substances
08 04 10		Waste adhesives and sealant other than those mentioned in 08 04 09
08 04 11	HM	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	HM	Aqueous sludges containing adhesives or sealant containing organic solvents or other dangerous substances
08 04 14		aqueous sludges containing adhesives or sealant other than those mentioned in 08 04 13
08 04 15	HM	Aqueous liquid waste containing adhesives or sealant containing organic solvents or other dangerous substances
08 04 16		Aqueous liquid waste containing adhesives or sealant other than those mentioned in 08 04 15
08 04 17	HA	Rosin oil
08 04 99		Wastes not otherwise specified
08 05		***Wastes not otherwise specified in 08***
08 05 01	HA	Waste isocyanates
09	**Wastes from the photographic industry**	
09 01		***Wastes from the photographic industry***
09 01 01	HA	Water-based developers and activator solutions
09 01 02	HA	Water-based offset plate developer solutions
09 01 03	HA	Solvent-based developer solutions
09 01 04	HA	Fixer solutions i.e., sodium thiosulfate, ammonium thiosulfate
09 01 05	HA	Bleach solutions and bleach fixer solutions
09 01 06	HM	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	HA	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	HA	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	HM	Coal fly ash
10 01 03		Fly ash from peat and untreated wood
10 01 04	HM	Oil fly ash and boiler dust

10 01 05		Calcium-based reaction wastes from flue-gas desulfurisation in solid form
10 01 07		Calcium-based reaction wastes from flue-gas desulfurisation in sludge form
10 01 09	HA	Sulfuric acid
10 01 13	HA	Fly ash from emulsified hydrocarbons used as fuel
10 01 14	HM	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	HM	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	HM	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	HM	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	HM	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	HM	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	HA	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	HM	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	HA	Primary production slags
10 03 05		Waste alumina
10 03 08	HA	Salt slags from secondary production
10 03 09	HA	Black drosses from secondary production
10 03 15	HM	Skimming that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 03 16		Skimming other than those mentioned in 10 03 15
10 03 17	HM	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	HM	Flue-gas dust containing dangerous substances
10 03 20		Flue-gas dust other than those mentioned in 10 03 19
10 03 21	HM	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	HM	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	HM	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	HA	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	HM	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	HA	Slags from primary and secondary production
10 04 02	HA	Dross and skimmings from primary and secondary production
10 04 03	HA	Calcium arsenate
10 04 04	HA	Flue-gas dust
10 04 05	HA	Other particulates and dust
10 04 06	HA	Solid wastes from gas treatment

10 04 07	HA	Sludges and filter cakes from gas treatment
10 04 09	HA	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	HA	Flue-gas dust
10 05 04		Other particulates and dust
10 05 05	HA	Solid wastes from gas treatment
10 05 06	HA	Sludges and filter cakes from gas treatment
10 05 08	HA	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	HM	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	HA	Flue-gas dust
10 06 04		Other particulates and dust
10 06 06	HA	Solid wastes from gas treatment
10 06 07	HA	Sludges and filter cakes from gas treatment
10 06 09	HM	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	HA	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	HA	Salt slag from primary and secondary production
10 08 09		Other slags
10 08 10	HM	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	HA	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 scraps
10 08 15	HM	Flue-gas dust containing dangerous substances
10 08 16		Flue-gas dust other than those mentioned in 10 08 15
10 08 17	HM	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	HA	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	HM	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	HM	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	HM	Flue-gas dust containing dangerous substances
10 09 10		Flue-gas dust other than those mentioned in 10 09 09
10 09 11	HM	Other particulates containing dangerous substances
10 09 12		Other particulates other than those mentioned in 10 09 11

10 09 13	HM	Waste binders containing dangerous substances
10 09 14		Waste binders other than those mentioned in 10 09 13
10 09 15	HM	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 non-ferrous pieces***
10 10 03		Furnace slag
10 10 05	HM	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	HM	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	HM	Flue-gas dust containing dangerous substances
10 10 10		Flue-gas dust other than those mentioned in 10 10 09
10 10 11	HM	Other particulates containing dangerous substances
10 10 12		Other particulates other than those mentioned in 10 10 11
10 10 13	HM	Waste binders containing dangerous substances
10 10 14		Waste binders other than those mentioned in 10 10 13
10 10 15	HM	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	HA	Waste glass-based fibrous materials
10 11 05		Particulates and dust
10 11 09	HM	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	HM	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	HM	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	HM	Solid wastes from 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	HM	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	HM	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	HM	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	HM	Wastes from glazing containing heavy metals such as frit
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	HM	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	HM	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
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, picking processes, etching, phosphating, alkaline degreasing, anodizing)***
11 01 05	HA	Pickling acids
11 01 06	HA	Acids not otherwise specified
11 01 07	HA	Pickling bases
11 01 08	HA	Phosphatising sludges
11 01 09	HM	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	HM	Aqueous rinsing liquids containing dangerous substances
11 01 12		Aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 13	HM	Degreasing wastes containing dangerous substances
11 01 14		Degreasing wastes other than those mentioned in 11 01 13
11 01 15	HM	Eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 01 16	HA	Saturated or spent ion exchange resins
11 01 98	HM	Other wastes containing dangerous substances
11 01 99		Wastes not otherwise specified
11 02		***Wastes from non-ferrous hydrometallurgical processes***
11 02 02	HA	Sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 03		Wastes from the production of anodes for aqueous electrolytical processes
11 02 05	HM	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	HM	Other wastes containing dangerous substances
11 02 99		Wastes not otherwise specified
11 03		***Sludges and solids from tempering processes***
11 03 01	HA	Wastes containing cyanide
11 03 02	HA	Other wastes

11 05		***Wastes from hot galvanizing processes***
11 05 01		Hard zinc
11 05 02		Zinc ash
11 05 03	HA	Solid wastes from gas treatment
11 05 04	HA	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	HA	Mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07	HA	Mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 08	HA	Machining emulsions and solutions containing halogens
12 01 09	HA	Machining emulsions and solutions free of halogens
12 01 10	HA	Synthetic machining oils
12 01 12	HA	Spent waxes and fats
12 01 13		Welding wastes
12 01 14	HM	Machining sludges containing dangerous substances
12 01 15		Machining sludges other than those mentioned in 12 01 14
12 01 16	HM	Waste blasting material containing dangerous substances
12 01 17		Waste blasting material other than those mentioned in 12 01 16
12 01 18	HA	Metal sludge (grinding, honing and lapping sludge) containing oil
12 01 19	HA	Readily biodegradable machining oil
12 01 20	HM	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 94		Ceramics shaping
12 01 95		Graphite shaping

12 01 96		Composite materials shaping
12 01 97	HM	Soldering wastes containing hazardous substances
12 01 98		Soldering wastes containing hazardous substances other than those mentioned in 12 01 97
12 01 99		Wastes not otherwise specified
12 03		***Wastes from water and steam degreasing processes (except 11)***
12 03 01	HA	Aqueous washing liquids
12 03 02	HA	Steam degreasing wastes
13	**Oil wastes and wastes of liquid fuels (except edible oils)**	
13 01		***Waste hydraulic oils***
13 01 01	HA	Oils containing PCBs
13 01 04	HA	Chlorinated emulsions
13 01 05	HA	Non-chlorinated emulsions
13 01 09	HA	Mineral-based chlorinated oils
13 01 10	HA	Mineral-based non-chlorinated oils
13 01 11	HA	Synthetic oils
13 01 12	HA	Readily biodegradable oils
13 01 13	HA	Other oils
13 02		***Waste engine, gear and lubricating oils***
13 02 04	HA	Mineral-based oils
13 02 05	HA	Mineral-based non-chlorinated oils
13 02 06	HA	Synthetic oils
13 02 07	HA	Readily biodegradable oils
13 02 08	HA	Other oils
13 03		***Waste insulating and heat transmission oils***
13 03 01	HA	Oils containing PCBs
13 03 06	HA	Mineral-based chlorinated oils other than those mentioned in 13 03 01
13 03 07	HA	Mineral-based non-chlorinated oils
13 03 08	HA	Synthetic oils
13 03 09	HA	Readily biodegradable oils
13 03 10	HA	Other oils
13 04		***Bilge oils***
13 04 01	HA	Bilge oils from inland navigation

13 04 02	HA	Bilge oils from jetty sewers
13 04 03	HA	Bilge oils from other navigation
13 05		***Oil/water separator contents***
13 05 01	HA	Solids from grit chambers and oil/water separators
13 05 02	HA	Sludges from oil/water separators
13 05 03	HA	Interceptor sludges
13 05 06	HA	Oil from oil/water separators
13 05 07	HA	Oily water from oil/water separators
13 05 08	HA	Mixtures of wastes from grit chambers and oil/water separators
13 07		***Wastes of liquid fuels***
13 07 01	HA	Fuel oil and diesel
13 07 02	HA	Petrol
13 07 03	HA	Other fuels (including mixtures)
13 08		***Oil wastes not otherwise specified***
13 08 01	HA	Desalter sludges or emulsions
13 08 02	HA	Other emulsions
13 08 99	HA	Wastes not otherwise specified
14	**Waste organic solvents, refrigerants and propellants (excluding wastes in 07 and 08)**	
14 06		***Waste organic solvents, refrigerants and foam/aerosol propellants***
14 06 01	HA	Chlorofluorocarbons, HCFC, HFC
14 06 02	HA	Other halogenated solvents and solvent mixtures
14 06 03	HA	Other solvents and solvent mixtures
14 06 04	HA	Sludges or solid wastes containing halogenated solvents
14 06 05	HA	Sludges or solid wastes containing other solvents
15	**Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**	
15 01		***Packaging***
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	HM	Packaging containing residues of or contaminated by dangerous substances
15 01 11	HM	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	HM	Absorbents, filter materials (including oil filters not otherwise specified in 16 01 07), 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	HM	End-of-life vehicles
16 01 06		End-of-life vehicles, containing neither liquids nor other hazardous components
16 01 07	HA	Oil filters
16 01 08	HM	Components containing mercury
16 01 09	HA	Components containing PCBs
16 01 10	HA	Explosive components (for example air bags)
16 01 11	HM	Brake pads containing asbestos
16 01 12		Brake pads other than those mentioned in 16 01 11
16 01 13	HA	Brake fluids
16 01 14	HM	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	HM	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 80	HA	Radiator coolant fluids containing dangerous substances such as glycol
16 01 81		Radiator coolant fluids other than those mentioned in 16 01 80
16 01 99		Wastes not otherwise specified
16 02		***Wastes from electrical and electronic equipment***
16 02 09	HA	Transformers and capacitors containing PCBs
16 02 10	HA	Discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11	HM	Discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 12	HM	Discarded equipment containing free asbestos
16 02 13	HM	Discarded equipment containing hazardous components (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.) 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	HA	Hazardous components removed from discarded equipment
16 02 16		Components removed from discarded equipment other than those mentioned in 16 02 15
16 03		***Off-specification batches and unused products***
16 03 03	HM	Inorganic wastes containing dangerous substances
16 03 04		Inorganic wastes other than those mentioned in 16 03 03
16 03 05	HM	Organic wastes containing dangerous substances
16 03 06		Organic wastes other than those mentioned in 16 03 05
16 03 07	HA	Metallic mercury
16 04		***Waste explosives***
16 04 01	HA	Waste ammunition
16 04 02	HA	Fireworks wastes
16 04 03	HA	Other waste explosives
16 05		***Gases in pressure containers and discarded chemicals***
16 05 04	HM	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	HM	Laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 07	HM	Discarded inorganic chemicals consisting of or containing dangerous substances

16 05 08	HM	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	HA	Lead batteries
16 06 02	HA	Ni-Cd batteries
16 06 03	HA	Mercury-containing batteries
16 06 04		Alkaline batteries (except 16 06 03)
16 06 05		Other batteries and accumulators
16 06 06	HA	Separately collected electrolyte from batteries and accumulators
16 06 96	HA	Ni-metal hydride batteries
16 06 97	HA	Li-ion batteries
16 06 98	HA	Other batteries and accumulators containing hazardous substances
16 07		***Wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)***
16 07 08	HA	Wastes containing oil
16 07 09	HM	Waste 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	HM	Spent catalysts containing dangerous transition metals (transition metals are scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum) 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	HM	Spent catalysts containing phosphoric acid
16 08 06	HA	Spent liquids used as catalysts
16 08 07	HM	Spent catalysts contaminated with dangerous substances
16 09		***Oxidizing substances***
16 09 01	HA	Permanganates, for example potassium permanganate
16 09 02	HA	Chromates, for example potassium chromate, potassium or sodium dichromate
16 09 03	HA	Peroxides, for example hydrogen peroxide

16 09 04	HA	Oxidizing substances, not otherwise specified
16 10		***Aqueous liquid wastes destined for off-site treatment***
16 10 01	HM	Aqueous liquid wastes containing dangerous substances
16 10 02		Aqueous liquid wastes other than those mentioned in 16 10 01
16 10 03	HM	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	HM	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	HM	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	HM	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	HM	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	HM	Glass, plastic and wood containing or contaminated with dangerous substances
17 03		***Bituminous mixtures, coal tar and tarred products***

17 03 01	HA	Bituminous mixtures containing coal tar
17 03 02		Bituminous mixtures other than those mentioned in 17 03 01
17 03 03	HA	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	HM	Metal waste contaminated with dangerous substances
17 04 10	HM	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	HM	Soil and stones containing dangerous substances
17 05 04		Soil and stones other than those mentioned in 17 05 03
17 05 05	HM	Dredging spoil containing dangerous substances
17 05 06		Dredging spoil other than those mentioned in 17 05 05
17 05 07	HM	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	HM	Insulation materials containing asbestos
17 06 03	HM	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	HM	Construction materials containing asbestos
17 08		***Gypsum-based construction material***
17 08 01	HM	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	HM	Construction and demolition wastes containing mercury

17 09 02	HA	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	HM	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**	
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	HA	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	HM	Chemicals consisting of or containing dangerous substances
18 01 07		Chemicals other than those mentioned in 18 01 06
18 01 08	HA	Cytotoxic and cytostatic medicines
18 01 09		Medicines other than those mentioned in 18 01 08
18 01 10	HA	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	HA	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 (for example dressings, plaster casts, linen, disposable clothing, diapers)
18 02 05	HM	Chemicals consisting of or containing dangerous substances
18 02 06		Chemicals other than those mentioned in 18 02 05
18 02 07	HA	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	HA	Aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 01 07	HA	Solid wastes from gas treatment
19 01 10	HA	Spent activated carbon from flue-gas treatment
19 01 11	HM	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	HM	Fly ash containing dangerous substances
19 01 14		Fly ash other than those mentioned in 19 01 13
19 01 15	HM	Boiler dust containing dangerous substances
19 01 16		Boiler dust other than those mentioned in 19 01 15
19 01 17	HM	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	HA	Premixed wastes composed of at least one hazardous waste
19 02 05	HM	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	HA	Oil and concentrates from separation
19 02 08	HM	Liquid combustible wastes containing dangerous substance
19 02 09	HM	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	HM	Other wastes containing dangerous substances
19 02 99		Wastes not otherwise specified
19 03		***Stabilised/solidified wastes (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.)***
19 03 04	HA	Wastes marked as hazardous, partly stabilised (A waste is considered as partly stabilised if, after the stalibisation 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 03 05		Stabilised wastes other than those mentioned in 19 03 04
19 03 06	HA	Wastes marked as hazardous, solidified
19 03 07		Solidified wastes other than those mentioned in 19 03 06
19 03 08	HA	Partly stabilized mercury
19 04		***Vitrified waste and wastes from vitrification***
19 04 01		Vitrified waste
19 04 02	HA	Fly ash and other flue-gas treatment wastes
19 04 03	HA	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	HM	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
19 08 05		Sludges from treatment of urban waste water
19 08 06	HA	Saturated or spent ion exchange resins
19 08 07	HA	Solutions and sludges from regeneration of ion exchangers
19 08 08	HM	Membrane system waste containing heavy metals
19 08 09		Grease and oil mixture from oil/water separation containing edible oil and fats

19 08 10	HA	Grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
19 08 11	HM	Sludges containing dangerous substances from biological treatment of industrial wastewater
19 08 12		Sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 13	HM	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 07		Spent absorbent
19 09 08		Brine
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	HM	Fluff-light fraction and dust containing dangerous substance
19 10 04		Fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 05	HM	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	HA	Spent filter clays
19 11 02	HA	Acid tars
19 11 03	HA	Aqueous liquid wastes
19 11 04	HA	Wastes from cleaning of fuel with bases
19 11 05	HM	Sludge 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	HA	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	HM	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	HM	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	HM	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	HM	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	HM	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	HM	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
19 80		***Wastes from air pollution control system not otherwise specified in the list***
19 80 01	HM	Solid wastes, such as particulates collected from air pollution control system (i.e., Baghouse, ESP, Cyclone, Scrubber), containing dangerous substances
19 80 02		Solid wastes, such as particulates collected from air pollution control system (i.e., Baghouse, ESP, Cyclone, Scrubber), other than those mentioned in 19 80 01

19 80 03	HM	Sludges from air pollution control systems containing dangerous substances
19 80 04		Sludges from air pollution control systems other than those mentioned in 19 80 03
19 80 99		wastes not otherwise specified

Annex 2

Characteristic of Hazardous Waste

No. 1 Unused materials which are ignitable substances with the following properties.

1.1 It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has flash point less than 60 °C, as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D 93–79 or D 93–80, or a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D 3278–78.

1.2 It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard under standard temperature and pressure (1 atm at 20°C)..

1.3 It is an ignitable compressed gas, which is any material or mixture packed in tank with absolute pressure more than 2.81 kilogram per square centimeter at 21°C or with absolute pressure more than 7.31 kilogram per square centimeter at 55°C, and as determined by using the test method specified in ASTM Standard D 323.

1.4 It is an oxidizer that can excite combustion of organic matter, for instance, compounds of chlorate, permanganate, inorganic peroxide, and nitrate.

No. 2 Unused materials which are corrosive substances with the following properties.

2.1 It is aqueous solution and has a pH less than or equal to 2 or less than or equal to 12.5 or higher, as determined by a pH meter using Method 9040 in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) which prescribed by U.S. Environmental Protection Agency Protection Agency (U.S. EPA).

2.2 It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 millimeters per year at a test temperature of 55 °C as determined by National Association of Corrosion Engineers: NACE) Standard TM-01-69 which is equivalent to Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), prescribed by U.S. Environmental Protection Agency Protection Agency (U.S. EPA).

2.3 It is not in the form of aqueous solution but when mixed with water, it will be a water solution with a pH value (pH) equal to 2 or lower and pH equal to 12.5 or higher according to the test method 9040 in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), prescribed by United States Environmental Protection Agency (U.S. EPA).

2.4 It is not in the form of liquid but when mixed with water, it will be a liquid that corrodes steel SAE 1020 class at a rate higher than 6.35 mm. per year at 55 ℃. Test method or analytical method by the National Association of Corrosion Engineers (NACE) Standard TM-01-69 which is equivalent to Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), prescribed by United States Environmental Protection Agency (U.S. EPA).

No. 3 Unused materials which are reactive substances with the following properties.

3.1 It is normally unstable and readily undergoes violent change without detonating.

3.2 It reacts violently with water.

3.3 It forms potentially explosive mixtures with water.

3.4 When mixed with water, it generates toxic gases, vapors, or fumes in a quantity sufficient to present a danger to human health or the environment.

3.5 It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors, or fumes in a quantity sufficient to present a danger to human health or the environment.

3.6 It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.

3.7 It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure (1 atm at 20°C).

No. 4 Unused materials which are toxic substances with the following properties.

4.1 Substances which are hazardous to health (Health hazards) or Environmental hazards according to the Globally Hazard Classification and Communication System Harmonized System of Classification and Labeling of Chemicals (GHS). Hazard classification shall be at least equivalent to the criteria according to the notification of the Ministry of Industry on the Hazard Classifications and Communication System of Hazardous Substances" as follows:

4.1.1 Health hazard class and category

(1) Acute toxicity, Hazard category 1, 2 or 3.

(2) Skin corrosion/irritation, Hazard category 1

(3) Serious eye damage/ eye irritation, Hazard category 1

(4) Respiratory sensitization, Hazard category 1, 1A or 1B

(5) Germ cell mutagenicity, Hazard Category 1

(6) Carcinogenicity, Hazard category 1

(7) Toxic to reproduction, Hazard category 1

(8) Specific target organ toxicity following single exposure, Hazard category 1

(9) Specific target organ toxicity following repeated exposure, Hazard category 1

(10) Aspiration hazard, Hazard category 1

4.1.2 Environmental hazard class and category

(1) Acute hazards to the aquatic environment, Hazard category 1

(2) Long-term hazards to the aquatic environment, Hazard category 1

(3) Hazard to the Ozone Layer, Hazard category 1

4.2 It contains any of the following substances at a single or combined concentration equal to or exceeding 0.001 percent by weight:

4.4.1 2-Acetylaminofluorene (2-AAF)

4.4.2 Acrylonitrile

4.4.3 4-Aminodiphenyl

4.4.4 Benzidine and its salts

4.4.5 bis (Chloromethyl) ether (BCME)

4.4.6 Methyl chloromethyl ether

4.4.7 1,2-Dibromo-3-chloropropane (DBCP)

4.4.8 3,3'-Dichlorobenzidine and its salts (DCB)

4.4.9 4-Dimethylaminoazobenzene (DAB)

4.4.10 Ethyleneimine (EL)

4.4.11 alpha-Naphthylamine (1-NA)

4.4.12 beta-Naphthylamine (2-NA)

4.4.13 4-Nitrobiphenyl (4-NBP)

4.4.14 N-Nitrosodimethylamine (DMN)

4.4.15 beta-Propiolactone (BPL)

4.4.16 Vinyl chloride (VCM)

No. 5 Unused materials having the following substance as constituent.

5.1 The total concentration of impurities, it was found that they contained hazardous inorganic compounds and hazardous organic substances in milligrams per kilogram in the waste

(mg/kg; wet weight), as determined using the total analysis, which equals or exceeds its listed Total Threshold Limit Concentration (TTLC).

Antimony and/or antimony compounds	500	mg/kg
Arsenic and/or arsenic compounds	500	mg/kg
Asbestos	1.0(as percent)	
Barium and/or barium compounds (excluding barite and barium sulfate)	10,000	mg/kg
Beryllium and/or beryllium compounds	75	mg/kg
Cadmium and/or cadmium compounds	100	mg/kg
Chromium (VI) compounds	500	mg/kg
Chromium and/or chromium (III) compounds	2,500	mg/kg
Cobalt and/or cobalt compounds	8,000	mg/kg
Copper and/or copper compounds	2,500	mg/kg
Fluoride salts	18,000	mg/kg
Lead and/or lead compounds	1,000	mg/kg
Mercury and/or mercury compounds	20	mg/kg
Molybdenum and/or molybdenum compounds (excluding molybdenum disulfide)	3,500	mg/kg
Nickel and/or nickel compounds	2,000	mg/kg
Selenium and/or selenium compounds	100	mg/kg
Silver and/or silver compounds	500	mg/kg
Thallium and/or thallium compounds	700	mg/kg
Vanadium and/or vanadium compounds	2,400	mg/kg
Zinc and/or zinc compounds	5,000	mg/kg
Aldrin	1.4	mg/kg
Chlordane	2.5	mg/kg
DDT, DDE, DDD	1.0	mg/kg
2,4-Dichlorophenoxyacetic acid	100	mg/kg
Dieldrin	8.0	mg/kg
Dioxin (2,3,7,8-TCDD)	0.01	mg/kg
Endrin	0.2	mg/kg
Heptachlor	4.7	mg/kg
Kepone	21	mg/kg

Lead compounds, organic	13	mg/kg
Lindane	4.0	mg/kg
Methoxychlor	100	mg/kg
Mirex	21	mg/kg
Pentachlorophenol	17	mg/kg
Polychlorinated biphenyls (PCBs)	50	mg/kg
Toxaphene	5	mg/kg
Trichloroethylene	2,040	mg/kg
2,4,5-Trichlorophenoxypropionic acid	10	mg/kg

(Note: - TTLC values are calculated on the concentrations of the elements, not the compounds.

- In the case of asbestos and elemental metals, the specified concentration limits apply only if the substances are in a friable, powdered or finely divided state. Asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.)

5.2 Unused materials that shall be extracted by Waste Extraction Test (WET) and extracted water analytical methods, contained hazardous inorganic compounds and hazardous organic substances in milligrams per liter of extract water (mg/L) is equal to or greater than the Soluble Threshold Limit Concentration (STLC) value.

Antimony and/or antimony compounds	15	mg/L
Arsenic and/or arsenic compounds	5.0	mg/L
Barium and/or barium compounds (excluding barite and barium sulfate)	100	mg/L
Beryllium and/or beryllium compounds	0.75	mg/L
Cadmium and/or cadmium compounds	1.0	mg/L
Chromium (VI) compounds	5	mg/L
Chromium and/or chromium (III) compounds	5	mg/L
Cobalt and/or cobalt compounds	80	mg/L
Copper and/or copper compounds	25	mg/L
Fluoride salts	180	mg/L
Lead and/or lead compounds	5.0	mg/L
Mercury and/or mercury compounds	0.2	mg/L
Molybdenum and/or molybdenum compounds; excluding molybdenum disulfide	350	mg/L
Nickel and/or nickel compounds	20	mg/L

Selenium and/or selenium compounds	1.0	mg/L
Silver and/or silver compounds	5	mg/L
Thallium and/or thallium compounds	7.0	mg/L
Vanadium and/or vanadium compounds	24	mg/L
Zinc and/or zinc compounds	250	mg/L
Aldrin	0.14	mg/L
Chlordane	0.25	mg/L
DDT, DDE, DDD	0.1	mg/L
2,4-Dichlorophenoxyacetic acid	10	mg/L
Dieldrin	0.8	mg/L
Dioxin (2,3,7,8-TCDD)	0.001	mg/L
Endrin	0.02	mg/L
Heptachlor	0.47	mg/L
Kepone	2.1	mg/L
Lindane	0.4	mg/L
Methoxychlor	10	mg/L
Mirex	2.1	mg/L
Pentachlorophenol	1.7	mg/L
Polychlorinated biphenyls (PCBs)	5.0	mg/L
Toxaphene	0.5	mg/L
Trichloroethylene	204	mg/L
Silvex (2,4,5-Trichlorophenoxypropionic acid)	1.0	mg/L

(Note: - TTLC values are calculated on the concentrations of the elements, not the compounds.)

5.3 Testing unused materials by the Waste Extraction Test or WET shall be carried out if the total concentration in any hazardous substances does not exceed TTLC value in 5.1 but equals to or over the STLC value in 5.2, or when such unused materials are destined to be disposed of by landfilling.

No. 6 Determination of total concentrations of substances, substance extraction test and analysis for hazardous substance concentrations in extractable concentration shall be as follows:

6.1 Samples shall be prepared for analysis for total and extractable concentration of substances as follows:

6.1.1 Type i: if the unused material is a millable solid, the sample shall be passed directly, or shall be milled to pass, through a standard sieve before it is analyzed. If the sample

contains non-friable solid particles which do not pass directly through a sieve and which are extraneous and irrelevant as hazardous constituents to the waste or other material, they shall be removed to the extent feasible by mechanical means and discarded. Solids which remain in the waste or other material after removal of the aforesaid extraneous particles shall be milled to pass through a sieve and shall then be combined and mixed well with the solids which passed through the sieve without milling. The reconstituted sample shall then be ready for analysis.

6.1.2 Type ii: if the unused material is a filterable mixture of liquid and solids in which the solids constitute five-tenths (0.5) percent by weight or greater of the sample, the liquid and solids shall be separated by filtration through a 0.45-micron membrane filter. The filtrate so obtained is to be designated as Initial Filtrate. The separated solids shall be sieved in a sieve and shall be recombined with solids which passed through the sieve without milling. This recombined solid material shall be analyzed as described in 6.4 by a ratio of 10 milliliters of extraction solution per gram of solid. After completion of solid extraction, the filtered extractant is combined with Initial Filtrate, mixed thoroughly and analyzed as described in 6.5.2.

6.1.3 Type iii: if the unused material is a nonfilterable and nonmillable sludge, slurry, or oily, tarry or resinous material, after discarding non-friable extraneous and irrelevant solid particles, the remainder of the sample shall then be ready for analysis.

6.1.4 If it is necessary to dry a solid sample or the solids fraction of a sample before sieving, milling or removal of extraneous solids, or if a sample is dried prior to analysis, all weight losses due to drying shall be determined, and these losses and the conditions of drying shall be reported.

6.1.5 A No. 10 (two millimeter) standard sieve shall be used in preparing sample for determination of total concentration of hazardous substance in milligram per kilogram and for determination of extractable concentration of hazardous substance in milligram per liter, except for determination of total concentration of organic toxic substance in milligram per kilogram a one-millimeter standard sieve shall be used instead.

6.2 If the unused material is a liquid or mixed with undissolved solids containing less than five-tenths (0.5) percent by weight, it shall not be subject to the Waste Extraction Test or WET procedure, but shall be analyzed directly for the substances listed and shall be classified as a hazardous waste if the total concentration in the waste of any substances listed exceeds the TTLC value given for that substance.

If, however, the total concentration is less than the TTLC but exceeds the STLC when expressed on a milligrams per liter basis, the waste or other material shall be filtered through a 0.45-

micron membrane filter, the solids discarded and the filtrate shall be analyzed directly for the substances listed. The waste shall be classified as a hazardous waste if the concentration in the filtrate of any of the substances listed exceeds the STLC value given for that substance.

6.3 The WET extraction solution shall consist of 0.2 M sodium citrate at pH 5.0 $\pm$ 0.1, which is prepared by an appropriate amount of analytical grade citric acid in deionized water (pH5.0) with 4.0 N NaOH.

Citric acid shall be prepared by Analytical grade citric acid dissolved in deionized water.

The extraction solution for the determination of chromium VI shall consist of deionized water.

6.4 The Waste Extraction Test (WET) procedures shall be as follows:

6.4.1 Fifty grams of sample shall be placed in a clean polyethylene or glass container (glass containers are for organic hazardous substance analysis)

Containers for extraction shall be continuously rinsed with nitric acid solution prepared by mixing nitric acid solution with deionized water in 1:1 ratio by volume.

6.4.2 Five hundred milliliters of extraction solution shall be added to the Treatment container, which shall be then fitted with covered air scrubbers extended well into the extraction solutions and flushed vigorously with nitrogen gas for 15 minutes so as to remove and exclude atmospheric oxygen from the extraction medium and using a table shaker, an overhead stirrer or a rotary extractor, operated at a speed which shall maintain the sample in a state of vigorously agitated suspension for 48 hours.

If the sample is to be analyzed for any volatile substance, such as trichloroethylene, the sample shall be added after deaeration with nitrogen to avoid volatilization loss.

6.4.3 The contents of the Treatment containers shall be either filtered directly or centrifuged and then filtered by 0.45 micron membrane filter, using clean thick-walled suction flask. For coarser solids, pressure filtration shall be an optional alternative to vacuum filtration. For very fine solids, centrifuging at as high as 10,000 X G before being filtered by 0.45 micron membrane filter.

6.4.4 All filters shall be of low and identified extractable heavy metals, fluoride and organic chemicals content.

6.4.5 Necessary equipment and instrument shall be as described in Method 1310 in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, “SW-846, 3rd edition, U.S. Environmental Protection Agency, 1986.

6.4.6 The temperature during the extraction shall be maintained between 20 and 40 degrees Celsius.

6.4.7 In case of analysis only for the metal elements, the filtered extracts from 6.4.3 shall be transferred to clean polyethylene bottles and acidified with nitric acid to five percent by volume acid content soon after each extract is filtered.

6.4.8 If the filtered extracts are also to be analyzed for the toxic organic substances or for the toxic organic substances only, the filtered extracts from 6.4.3 shall be transferred to clean glass bottles. If the extracts are to be analyzed for fluoride, they shall be transferred to clean polyethylene bottles.

These extracts, containing organic substances or fluoride, shall not be acidified, but shall be frozen soon after each extract is obtained and held frozen until the day of analysis, unless the extracts are analyzed within 24 hours.

6.4.9 In order to determine whether the extractable concentration (EC) in the sample exceeds the STLC for any of the substances listed. The extracts shall be analyzed according to the procedures identified in 6.5.2.

6.5 Sample analysis for total concentration of toxic substance shall be as follows:

6.5.1 For metals and metal compounds, extraction methods shall be as prescribed in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, “SW-846, specified by United States Environmental Protection Agency as follows:

6.5.1.1 Method 3050 for all metals and metal compounds, except hexavalent chromium.

6.5.1.2 Method 3060 for hexavalent chromium.

6.5.2 For toxic inorganic and organic substances except organic lead compounds, extraction methods shall be as prescribed in Chapter Two, “Choosing the Correct Procedure” in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, “SW-846, as prescribed by United States Environmental Protection Agency

6.5.3 For organic lead compounds, extraction method shall be as prescribed in Annex 11 of California Code of Regulations, Title 22 Social Security, Division 4.5 Environmental Health Standards for the Management of Hazardous Waste, Chapter 11 Identification and Listing of Hazardous Waste.

Annex 3

Management Codes of waste and unused materials

The management codes of waste or unused materials are detailed as follow:

No.1 Management of waste or unused materials can be classified into 8 methods as follows:

1.1	Method 01	Sorting
1.2	Method 02	Storage
1.3	Method 03	Reuse
1.4	Method 04	Recycle
1.5	Method 05	Recovery
1.6	Method 06	Treatment
1.7	Method 07	Disposal
1.8	Method 08	Others

No. 2 Three-digit code for management of waste or unused materials according to No.1 shall be as follows:

011	Sorting for resale
021	Storage (specify type of packing and containers)
031	Reuse as an intended purpose of unused materials
032	Return to original producer for disposal (specify name of producer)
033	Return to original producer for reusing containers or refilling containers (specify name of producer)
039	other reuse methods (please specify)
041	Use as fuel substitution or burn for energy recovery in incinerator or cement industrial furnace
042	Fuel blending for incinerator, cement industrial furnace and boiler and industrial furnace (specify destination)
043	Burn for energy recovery especially unused materials, which are non-hazardous waste for stove, boiler and industrial furnace
044	Use as raw material substitution in cement industrial furnace
045	Material blending to be used as raw material substitution in cement

industrial furnace (specify destination)

046 Fuel substitution made from non-hazardous unused materials for use as fuel blending for energy recovery (specify destination)

047 Fuel substitution made from non-hazardous unused materials for use in incinerator to generate electricity

048 Fuel substitution made from hazardous unused materials for use in incinerator to generate electricity

049 other recycle methods

051 Solvent reclamation/regeneration

052 Reclamation/regeneration of metal and metal compounds

053 Acid/base regeneration

054 Catalyst regeneration

055 Spent activated carbon regeneration

056 Spent resin or membrane regeneration

057 Catalyst regeneration

059 other recovery unlisted materials (please specify)

061 Biological treatment or chemical biological treatment

062 Biological treatment for using bio gas or hydrogen gas as energy

063 Chemical treatment or physical treatment or Physico-chemical treatment

065 Physico-chemical treatment of wastewater

066 Discharge into central wastewater treatment plant

067 Chemical stabilization

068 Chemical fixation using cementitious and/or pozzolanic material

069 Other detoxification methods (please specify)

071 Sanitary landfill (for non-hazardous waste and unused materials only)

072 Secure landfill

073 Secure landfill of stabilized and/or solidified wastes

074 Burn for destruction in community incinerator or incinerator for non-hazardous waste and unused materials

075 Burn for destruction in hazardous waste incinerator

076 Co-incineration in cement kiln

077 Deep well or underground injection; sea-bed insertion

079 Other disposal methods (please specify)

081 Collect and export

082 Land reclamation (for non-hazardous waste and unused materials only)

083 Composting or soil conditioner (for non-hazardous waste and unused materials only)

084 Animal feed (for non-hazardous waste and unused materials only)

085 Study research and development for the piloted project.

Unofficial Translation

Only the Thai version of the text is legally binding.

Form GorOr.1

Application Form for Offsite Waste or Unused Material Treatment

under the Notification of Ministry of Industry RE: Management of Waste or Unused Materials B.E. 2566 (2023)

Receiving number ..... Date .....

Date .....

Company/Limited partnership/Factory ……engaging in a business of ……

Factory license number …….....……Location of factory No. ..…… Moo…..Alley……....

Street……Sub-District…… District……. Province…….....

Contact phone number……Facsimile…… Email address……Taxpayer ID no.....

asks for permission to take waste out off a premise for off-site waste management

from date ..... to .....

as shown in the table below.

Number	Detail of waste or unused materials		Amount (Ton)	Management Method	Waste processor
	Waste code	Name/Description			

And have attached the following documentation:

□ Authorization letter with stamp duty

□ Liability agreement letter

□ Material Safety Data Sheet (for chemicals)

□ Details of treatment/disposal method

□ Characteristics and Property Analysis Report of Waste or Unused Materials

□ Flowchart of production process and waste generating process

□ Photos of waste and unused materials with description

□ Copy of landowner certificate with permission letter for land reclamation

□ Other (please specify) ....

Sign .....

( )

Factory entrepreneur

Caution:

(1) In case of incomplete documentation, the application shall not be accepted for consideration.

(2) In the event that the permit shall not be issued, if you do not agree, you may notify in writing with reasons to the Director General of the Department of Industrial Works within 15 days from the date of receiving the notification.

(3) If you deliberately take waste or unused materials out of the factory premise without permission, it shall be liable to an offense under Section 45 of the Factory Act B.E. 2535 (1992) with a not-exceeding-200,000-baht fine.