

CHAPTER 6 HAZARDOUS WASTE

C6.1 SCOPE

This Chapter contains criteria for a comprehensive management program to ensure that hazardous waste is identified, stored, transported, treated, disposed, and recycled in an environmentally sound manner. Specific disposal requirements for ozone depleting substances (ODSs) and polychlorinated biphenyls/terphenyls (PCB/Ts) may be found in Chapter 2, Air Emissions and Chapter 14, Polychlorinated Biphenyls, respectively. This chapter must be used in conjunction with Chapter 5, Hazardous Materials, and Chapter 7, Solid Waste.

C6.2 DEFINITIONS

Container (Behälter). A general term used to describe different types of receptacles to include tanks, drums, cans, and canisters.

Dangerous Goods (Gefahrgut). An ADR classification for the shipment of hazardous substances.

Disposal. The treatment, recycling, reuse, or permanent disposal (e.g., landfilling) of waste.

Elementary Neutralization. A process of neutralizing a HW, which is hazardous only because of the corrosivity characteristic. It must be accomplished in a tank, transport vehicle, or container.

Generator. The DoD authority within a DoD installation that for the German authorities represents the producer of the hazardous waste at the DoD installation. The generator must ensure that German legal requirements with respect to hazardous waste management, storage, shipment and disposal are complied with (e.g., the preparation of waste registries and waste management programs, providing appropriate training to personnel involved in hazardous waste management).

Generating Activity. The actual organization, unit, or shop within a DoD installation that produces the waste. The generating activity is typically the activity that is responsible for properly managing the waste and preparing internal hazardous waste documentation.

Hazardous Properties. Hazardous Properties (Gefährlichkeitsmerkmale). Hazardous substances, including hazardous waste, are classified according to a range of established properties, such as flammability, oxidizability or toxicity. Hazardous properties are listed in Table C5.T3 of Chapter 5, Hazardous Material.

Hazardous Substance. Substances that are classified as hazardous according to a range of properties (i.e., flammable, oxidizing, or representing a hazard to the environment) described in Table C5.T3 of Chapter 5, Hazardous Material. Hazardous substances include both hazardous materials and hazardous wastes.

Hazardous Waste. Those wastes that are specifically designated as hazardous wastes in Europe (see Table C6.T3) and all wastes having hazardous properties, which includes all “wastes requiring special supervision” (*besonders überwachungsbedürftiger Abfall*) and some “wastes

requiring supervision" (*überwachungsbedürftiger Abfall*). The requirements do not specifically define which wastes requiring supervision are considered hazardous wastes (HW); this must be decided on a case by case basis.

Hazardous Waste Accumulation Point (HWAP). A location where hazardous wastes are accumulated until removed to a Hazardous Waste Storage Area (HWSA) or transported for treatment or disposal. A HWAP may be used to accumulate per waste stream no more than one container as specified for the particular waste stream in the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR). The HWAP must be at or near the point of generation and under the control of the operator.

Hazardous Waste Fuel. Hazardous wastes burned for energy recovery. Fuel produced from hazardous waste by processing, blending, or other treatment is also hazardous waste fuel.

Hazardous Waste Generation. Any act or process that produces hazardous waste as defined in these FGS.

Hazardous Waste Log. A listing of HW deposited and removed from a HWSA. Information such as the waste type, volume, location, and storage removal dates should be recorded.

Hazardous Waste Profile Sheet (HWPS). A document that identifies and characterizes the waste by providing user's knowledge of the waste, and/or lab analysis, and details the physical, chemical, and other descriptive properties or processes which created the hazardous waste.

Hazardous Waste Storage Area (HWSA). One or more locations on a DoD installation where HW is collected and stored prior to shipment for treatment or disposal. At a HWSA more than one container as specified for the particular waste stream in the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) per waste stream may be accumulated. The requirements for storage, distribution and handling facilities as described of Chapter 5, Hazardous Materials, are also applicable to HWSAs.

Hazardous Waste Storage Area Manager. A DoD employee, or agency, on the installation assigned the operational responsibility for receiving, storing, inspecting, and general management of the installation's HWSA or HWSA program.

Tender (Andienen). To offer waste (specifically, waste requiring special supervision) to a central State agency for the purposes of determining a permanent disposal facility for the waste. A waste generator may propose to the central State agency to permanently dispose of waste at a facility of its choice, and assuming the agency agrees to the manner of disposal and the disposal facility, the generator may permanently dispose of waste at the desired facility. A contracted organization or other entity may tender waste on behalf of the waste generator.

Treatment. Any method, technique, or process, excluding elementary neutralization, designed to change the physical, chemical, or biological characteristics or composition of any hazardous waste so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

Unique Identification Number. A number assigned to generators of hazardous waste to identify the generator and used to assist in tracking the waste from point of generation to ultimate disposal. The number is the Department of Defense Activity Address Code (DoDAAC).

Used Oil (Altöl). All used fluids or semi-fluid substances that consist partly or entirely of mineral oil or synthetic oil, including oil-containing residues from containers, emulsions and water-oil mixtures. Used oil may also include impurities as a result of use, or additives added prior to use such as PCBs, solvents, and turpentine. Note: used oil is considered a hazardous waste.

PCB-Containing Waste. Waste polychlorinated biphenyls, polychlorinated terphenyls, halogenated monomethyl diphenylmethane, and wastes containing more than 50 mg/kg of these substances are referred to as PCB-containing wastes.

Waste Requiring Special Supervision (*besonders überwachungsbedürftiger Abfall*). All waste types that are classified as waste requiring special supervision, refer to table C7.T1 of Chapter 7, Solid Waste.

Waste Requiring Supervision (*überwachungsbedürftiger Abfall*). All waste types that are classified as waste requiring supervision, refer to table C7.T1 of Chapter 7, Solid Waste.

C6.3 REQUIREMENTS

C6.3.1 DOD HAZARDOUS WASTE GENERATORS

- C6.3.1.1 Hazardous Waste Determination and Characterization. A chemical analysis in accordance with established German guidelines of waste requiring special supervision must be conducted prior to disposal by the DoD installation that is responsible for the disposal of the hazardous waste, the waste collector, or by the disposal company. For the disposal of wastes requiring supervision, and for the disposal of wastes requiring special supervision by means of a collective disposal manifest (*Sammelentsorgungsnachweis*), it is acceptable that the waste identification provided to the waste collector or the disposal company is based on the knowledge of the waste generator.
- C6.3.1.2 Waste Management Plan and Registry. Generators that annually produce greater than 2,000 kilograms (kg) (2 metric tons) of waste requiring special supervision or 2,000 metric tons (2,000,000 kilograms) of waste requiring supervision, per waste type, must prepare a waste management plan and an annual waste registry. Both the waste management plan and waste registry must be submitted to the competent German authorities upon request.
- C6.3.1.2.1 Waste Management Plan (*Abfallwirtschaftskonzept*)
- C6.3.1.2.1.1 The waste management plan is a management plan that addresses current and planned waste generation and disposal activities. The waste management plan must be updated at least every 5 years.
- C6.3.1.2.1.2 The waste management plan must address:

- the generation and storage of waste requiring special supervision and waste requiring supervision (for all waste, regardless of whether such waste is collected for disposal or recycling);
- the estimated quantities of waste in metric tons;
- the associated waste codes and descriptions (see Table C6.T3 and Table C7.T1 of Chapter 7, Solid Waste);
- the methods of recycling or disposal; and
- the associated waste accumulation facilities (*Abfall-Anfallstellen*), specifically to include the:
 - identification of the facility operator;
 - name and address of the facility;
 - disposal number (*Entsorgernummer*) of the contracted disposal company; and
 - declaration from the importing country, if recycling or disposal is conducted outside of Germany.

C6.3.1.2.1.3 The waste management plan must address any measures planned for reduction and recycling for each waste, as well the necessity for disposal (*Beseitigung*) if other measures are not implemented.

C6.3.1.2.1.4 If an organization disposes of its waste at its own facility, the waste management plan must address whether the disposal facility will remain in operation or is planned for closure.

C6.3.1.2.2 Waste Registry (*Abfallbilanz*)

C6.3.1.2.2.1 The waste registry documents the waste generation and disposal activities that have occurred in the past year. A recommended (i.e., non-mandatory) form for the waste registry is presented in Table C7.T10 in Chapter 7, Solid Waste, as the waste registry addresses solid waste as well as hazardous waste.

C6.3.1.2.2.2 The waste registry must document:

- the annual generation and storage of waste requiring special supervision and waste requiring supervision that occurred (for all waste, regardless of whether such waste were collected for disposal or recycling);
- the annual quantities of waste generated in metric tons;
- the associated waste codes and descriptions (see Table C6.T3 and Table C7.T1 of Chapter 7, Solid Waste) for the waste generated;
- the methods of recycling or disposal that were utilized; and

- the associated waste accumulation facilities (*Abfall-Anfallstellen*) that were utilized, specifically to include the:
 - identification of the facility operator;
 - name and address of the facility;
 - disposal number (*Entsorgernummer*) of the contracted disposal company; and
 - declaration from the importing country, if recycling or disposal was conducted outside of Germany.

C6.3.1.3 Identification Numbering. Each generator will use a unique identification number for all DoD internal recordkeeping, reports, and transportation documentation for hazardous waste. Generators will also use the official waste generator number (*Abfallerzeugernummer*) assigned by the competent German authority to the DoD installation (*disposal manifest, Entsorgungsnachweis*) or to the disposal company (collective disposal, *Sammelentsorgungsnachweis*). The hazardous waste generator number is used for disposal documentation as described in C6.3.1.5.

C6.3.1.4 Transportation. Hazardous waste transportation must be conducted in accordance with the Joint Regulation for the Safe Movement of Hazardous Goods via Surface Modes (USAREUR Regulation 55-4, USAFE Instruction 24-203), the ADR, and international agreements. For the transportation of hazardous wastes that are classified as dangerous goods, the requirements of Chapter 5, Hazardous Materials are also applicable.

C6.3.1.4.1 The transport of hazardous waste must be accompanied by appropriate documentation. The requirements regarding the transportation documentation are detailed in C5.3.3 of Chapter 5, Hazardous Materials.

C6.3.1.5 Disposal Documentation. As part of the hazardous waste disposal audit trail, the waste generator is required to maintain specific documentation that depends on the waste category and disposal method (see C6.3.1.6). The required documentation is summarized in Table C6.T1 and includes a “Proof Procedure” (*Nachweisverfahren*) or the related simplified procedures, documentation regarding the permissibility of the disposal method, and records of actual waste transactions in “Proof Logs” (*Nachweisbüchern*).

C6.3.1.5.1 Waste Requiring Supervision

C6.3.1.5.1.1 For the disposal of wastes requiring supervision that are to be recycled, the waste generator must complete the appropriate forms for the simplified proof (*vereinfachter Nachweis*), unless the wastes do not exceed 5 metric tons (5,000 kilograms) per waste code, per calendar year. The simplified proof consists of:

- a declaration by the waste generator (*Verantwortliche Erklärung des Abfallerzeugers*); and
- an acceptance declaration by the waste disposal facility (*Annahmeerklärung des Entsorgers*).

As an alternative, the proof of permissibility of the planned disposal method may be provided with a simplified collective proof (*vereinfachter Sammelnachweis*) (see also C7.3.17 of Chapter 7, Solid Waste). The simplified collective proof consists of:

- a declaration by the collector; and
- a declaration of acceptance by the waste disposal facility (*Annahmeerklärung des Entsorgers*).

Prior to beginning the planned disposal, both declaration forms must be completed and copies exchanged between the participating parties, i.e., the collector and the waste disposal facility. In the case of the simplified collective proof procedure, the waste generator is only required to document the proper disposal by means of the acceptance slips (*Übernahmescheine*) obtained from the waste collector.

C6.3.1.5.1.2 Additional requirements regarding disposal documentation for wastes requiring supervision are provided in Chapter 7, Solid Waste.

C6.3.1.5.2 Waste Requiring Special Supervision

C6.3.1.5.2.1 Waste generators that generate greater than 2,000 kg (2 metric tons) per year of wastes requiring special supervision must follow one of the following procedures:

- Obligatory proof procedure (*obligatorisches Nachweisverfahren*). This procedure is comprised of a disposal manifest (*Entsorgungsnachweis*) and subsequent accompanying documentation (*Begleitschein*) and proof logs (*Nachweisbücher*). The disposal manifest comprises a declaration of the waste generator (*Verantwortliche Erklärung des Abfallerzeugers*) which includes an identification analysis of the waste (*Deklarationsanalyse*), and a declaration of acceptance from the disposal company (*Annahmeerklärung des Entsorgers*). The proof logs are a collection of disposal manifests and accompanying documentation.
- Collective disposal manifest (*Sammelentsorgungsnachweis*). A collective disposal manifest is allowable for the generation of wastes requiring special supervision that does not exceed 15 metric tons (15,000 kilograms) per year per waste code. The waste generator is only required to document the proper disposal by means of the acceptance slips obtained by the waste collector.

- Privileged proof procedure (privilegiertes Nachweisverfahren). This procedure is comprised of only a notification to the competent German authority. In this procedure, a certified disposal company (*Entsorgungsfachbetrieb*) is contracted for waste disposal and a disposal manifest is not required to be maintained by the waste generator.
- C6.3.1.5.2.2 Waste generators that generate less than 2,000 kg (2 metric tons) per year of wastes requiring special supervision (*Kleinmengen*) need only document waste disposal by maintaining acceptance slips (*Übernahmescheine*) for each waste type.
- C6.3.1.5.3 Documentation regarding the use and disposal of wastes includes documentation regarding the permissibility of the use and disposal of wastes as well as documentation of the actual waste transactions in proof logs (*Nachweisbücher*). Completed simplified proof forms and acceptance slips must be maintained in the proof log that documents actual waste transactions (*Nachweisbücher*). The proof log must be kept for a minimum of three years after the date of the last entry. Disposal documentation must be maintained by the operator of a facility for at least 10 years after closure of the facility.
- C6.3.1.5.4 Disposal documentation must include the following (note that this documentation includes information that is additional to the German waste documentation requirements):
- C6.3.1.5.4.1 The name and address of the hazardous waste generator.
 - C6.3.1.5.4.2 The hazardous waste generator number (*Abfallerzeugernummer*) assigned by the competent German authority to the DoD installation.
 - C6.3.1.5.4.3 Transporter's name and address.
 - C6.3.1.5.4.4 Destination name and address.
 - C6.3.1.5.4.5 The waste key and corresponding name (see Table C6.T3 and Table C7.T1 of Chapter 7, Solid Waste) of the hazardous waste to be disposed of must be included as part of the accompanying documentation or acceptance slips.
 - C6.3.1.5.4.6 The disposal company accepting the waste must record the total quantity of waste in metric tons.
 - C6.3.1.5.4.7 Date of shipment.
 - C6.3.1.5.4.8 Date of receipt.

C6.3.1.6 Audit Trail.

- C6.3.1.6.1 The hazardous waste generator, will maintain an audit trail of hazardous waste from the point of generation to disposal using the accompanying documentation (*Begleitscheine*) or acceptance slips (*Übernahmescheine*).
- C6.3.1.6.2 Volumes of waste and methods of waste disposal must be documented in a waste management plan (*Abfallwirtschaftskonzept*) and waste registry (*Abfallbilanz*).
- C6.3.1.6.3 An internal audit trail for tracking hazardous waste disposal must also be established. Generating activities using DRMS disposal services will obtain a signed copy of the disposal documentation from the initial DRMS recipient of the waste, at which time DRMS assumes responsibility. A generating activity, as provided in a host-tenant agreement, that uses the hazardous waste management and/or disposal program of a DoD component that has a unique identification number (see C6.2, Definitions), will obtain a signed copy of the disposal documentation from the receiving component, at which time the receiving component will assume responsibility for subsequent storage, transfer and disposal of the waste. Activities desiring to dispose of their waste outside of the DRMS system will file the original disposal documentation to provide an audit trail from point of generation to ultimate disposal.
- C6.3.1.7 Waste Identification Number. Generators must assign a six-digit waste key (see Table C6.T3 and Table C7.T1 of Chapter 7, Solid Waste) for all wastes generated in Germany.
- C6.3.1.8 A Hazardous Waste Profile Sheet (HWPS) will be used to identify each hazardous waste stream. The HWPS must be updated by the generator, as necessary, to reflect any new waste streams or process modifications that change the character of the hazardous waste being handled.

C6.3.2 HAZARDOUS WASTE ACCUMULATION POINT (HWAP)

- C6.3.2.1 A HWAP is defined in C6.2. Each HWAP must be designed and operated to provide appropriate segregation for different waste streams, including those that are chemically incompatible. Each HWAP will have hazard signs appropriate for the waste being accumulated at that site (see C5.3.7.3 and C5.A4 of Chapter 5).
- C6.3.2.2 A HWAP will comply with the storage limits specified in the definition for a HWAP in C6.2. When these limits have been reached, the generator will make arrangements within 5 working days to move the hazardous waste to a HWSA or ship it off-site for treatment or disposal. Arrangements must include submission of all appropriate turn-in documents to initiate the removal (e.g., DD 1348-1A) to appropriate authorities responsible for removing the HW (e.g., DRMO).

- C6.3.2.3 The provisions of C6.3.4 of this Chapter, Use and Management of Containers, apply to HWAPs.
- C6.3.2.4 The following provisions of C6.3.5, Recordkeeping Requirements, apply to HWAPs where HW may be shipped off-post: C6.3.5.1 (Turn-in documents), C6.3.5.2 (Hazardous Waste Log), and C6.3.5.5 (Manifests).
- C6.3.2.5 Personnel Training. Personnel assigned HWAP duty must successfully complete appropriate hazardous waste training necessary to perform their assigned duties. At a minimum, this must include pertinent waste handling and emergency response procedures. Generic HW training requirements are described in C6.3.9.

C6.3.3 HAZARDOUS WASTE STORAGE AREAS (HWSA)

HWSAs must meet the following criteria and C5.3.2 (Aisle Space), C5.3.11 (Unauthorized Access), C5.3.14 (Requirements for Facilities that Store, Distribute, and Handle Hazardous Substances) and C5.3.24 (Protective Measures) of Chapter 5, Hazardous Materials.

- C6.3.3.1 Hazardous waste should not be stored longer than one year in a HWSA.
- C6.3.3.2 Waste Analysis and Verification.
- C6.3.3.2.1 Maintenance of Waste Verification Analysis File. The HWSA must have, and keep on file, a HWPS for each waste stream that is stored at each HWSA.
- C6.3.3.2.2 Waste Verification. Generating activities will provide identification of incoming waste based on the HWPS. The HWSA manager will verify that the identification corresponds with the information that is provided in waste disposal documentation. Prior to accepting the waste, the HWSA manager will:
- C6.3.3.2.2.1 inspect the waste to ensure it matches the description provided;
 - C6.3.3.2.2.2 ensure that no waste is accepted for storage unless a HWPS is provided, or available and properly referenced;
 - C6.3.3.2.2.3 request a new HWPS from the generating activity if there is reason to believe that the process generating the waste has changed;
 - C6.3.3.2.2.4 analyze waste shipments of unknown waste type to provide a correct waste description on the accompanying documents; and
 - C6.3.3.2.2.5 reject shipments, which do not match the internal accompanying waste descriptions unless the generating activity provides an accurate description.

- C6.3.3.3 Security.

- C6.3.3.3.1 Security System Design. An acceptable security system for a hazardous waste storage area consists of either:
- C6.3.3.3.1.1 A 24-hour surveillance system (e.g. television monitoring or surveillance by guards or other designated personnel) that continuously monitors and controls entry into the hazardous waste storage area; or
- C6.3.3.3.1.2 An artificial or natural barrier (e.g. a fence in good repair or a fence combined with a cliff) that completely surrounds the hazardous waste storage area, combined with a means to control entrance at all times (e.g. an attendant, television monitors, locked gate, or controlled roadway access).
- C6.3.3.3.2 Required Signs. A sign with the legend "Danger Unauthorized Personnel Keep Out," must be posted at each entrance to the hazardous waste storage area, and at other locations, in sufficient numbers to be seen from any approach to the hazardous waste storage area. The legend must be written in English and in any other language predominant in the area surrounding the installation, and must be legible from a distance of at least 25 feet. Existing signs with a legend other than "Danger Unauthorized Personnel Keep Out," may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the hazardous waste storage area, and entry to it can be dangerous.
- C6.3.3.4 Access to Communications or Alarm System.
- C6.3.3.4.1 General. Whenever hazardous waste is being poured, mixed, or otherwise handled, all personnel involved in the operation must have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another person.
- C6.3.3.4.2 If there is only one person on duty at the HWSA premises, that person must have immediate access to a device, such as a telephone (immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance.
- C6.3.3.5 Required Equipment. All HWSAs must be equipped with the following:
- C6.3.3.5.1 An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to HWSA personnel.
- C6.3.3.5.2 A device, such as an intrinsically safe telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from installation security, fire departments, or emergency response teams.
- C6.3.3.6 General Inspection Requirements.

- C6.3.3.6.1 Types of Equipment Covered. Inspections must include all equipment and areas involved in storage and handling of hazardous waste, including all containers and container storage areas, tank systems and associated piping, and all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards.
- C6.3.3.6.2 Inspection Schedule. Inspections must be conducted according to a written schedule that is kept at the HWSA. The schedule must identify the types of problems (e.g., malfunctions or deterioration) that are to be looked for during the inspection (e.g., inoperative sump pump, leaking fitting, eroding dike, etc.).
- C6.3.3.6.3 Frequency of Inspections. Minimum frequencies for inspecting tank systems are found in C6.3.7.1. For equipment not covered by C6.3.7.1, inspection frequency should be based on the rate of possible deterioration of the equipment and probability of an environmental or human health incident if the deterioration or malfunction or any operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, must be inspected daily when in use.
- C6.3.3.6.4 Remedy of Problems Revealed by Inspection. The installation must remedy any deterioration or malfunction of equipment or structures that the inspection reveals on a schedule, which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, action must be taken immediately.
- C6.3.3.6.5 Maintenance of Inspection Records. The installation must record inspections in an inspection log or summary, and keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- C6.3.3.7 Storage Practices.
- C6.3.3.7.1 General requirements for ignitable, reactive, or incompatible wastes. The HWSA manager must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste must be separated and protected from sources of ignition or reaction including but not limited to: open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. While ignitable or reactive waste is being handled, the HWSA personnel must confine smoking and open flame to specially designated locations. "No smoking" signs, or appropriate icon, must be conspicuously placed wherever there is a hazard

from ignitable or reactive waste. In areas where access by non-English speaking persons is expected, the "no smoking" legend must be written in English and in any other language predominant in the area. Water reactive waste cannot be stored in the same area as flammable and combustible liquid.

C6.3.3.8 Closure and Closure Plans.

C6.3.3.8.1 Closure. At the closure of a HWSA, hazardous waste and hazardous waste residues must be removed from the containment system including remaining containers, liners, and bases. Closure should be done in a manner which eliminates or minimizes the need for future maintenance or the potential for future releases of hazardous waste and according to the Closure Plan. Facilities identified within C5.3.14.2.3.1 of Chapter 5, Hazardous Materials, require an inspection by an expert (*Sachverständigen*) prior to closure.

C6.3.3.8.2 Closure Plan. Closure plans will be developed before a new HWSA is opened. Each existing HWSA also will develop a closure plan. Concurrent with the decision to close the HWSA the plan will be implemented. The closure plan will include: estimates of the storage capacity of hazardous waste, steps to be taken to remove or decontaminate all waste residues, and estimate of the expected date for closure.

C6.3.4 USE AND MANAGEMENT OF CONTAINERS

The following requirements, and C5.3.13 (Packaging of Hazardous Materials) of Chapter 5, Hazardous Materials, are applicable to the use and management of containers.

C6.3.4.1 Container Handling and Storage. To protect human health and the environment, the following guidelines will apply when handling and storing hazardous waste containers.

C6.3.4.1.1 Management of Containers.

C6.3.4.1.1.1 A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

C6.3.4.1.1.2 A container holding hazardous waste must not be opened, handled, or stored in a manner, which may rupture the container or cause it to leak.

C6.3.4.1.1.3 Containers of flammable liquids must be grounded when transferring flammable liquids from one container to the other.

C6.3.4.1.2 Packaging Hazardous Waste

- C6.3.4.1.2.1 **Packaging for Storage or Collection of Hazardous Waste**
- C6.3.4.1.2.1.1 The labeling requirements for packaging associated with the collection or storage of hazardous materials as presented in C5.3.7.1, C5.3.7.2 and C5.3.7.4 of Chapter 5, Hazardous Materials, are applicable to packaging associated with the collection and storage of hazardous waste with the following exception:
- Instead of the internationally recognized name of the substance and the data on manufacturer, importer or distributor/seller, the label must bear the identification number according to the European Waste Catalogue, to which the waste type has been classified as (see Table C6.T3 and Table C7.T1 of Chapter 7, Solid Waste).
- C6.3.4.1.2.1.2 The packaging of hazardous waste containing carcinogenic or mutagenic substances, or substances that are toxic to reproduction, must bear information on the substance or preparation.
- C6.3.4.1.2.1.3 Packaging of hazardous wastes must be done so that the packaging cannot be mistaken for foodstuffs or beverages and that the associated risks are clearly recognizable.
- C6.3.4.1.2.2 **Transport Packaging of Hazardous Waste.** Packaging for the transport of hazardous wastes must bear the appropriate hazard labels (see Chapter 5, Hazardous Materials). In case the storage containers are also used for shipment, the danger label (*Gefahrzettel*) may replace the hazard label (see Chapter 5, Hazardous Materials).
- C6.3.4.2 **Containment.** Rainwater captured in secondary containment areas of container storage areas should be inspected and/or tested prior to release. The inspection or testing must be reasonably capable of detecting contamination by the hazardous waste in the containers. Contaminated water shall be treated as hazardous waste until determined otherwise.
- C6.3.4.3 **Special Requirements for Ignitable or Reactive Waste.** Areas that store containers of ignitable or reactive waste must be located at least 15 meters (50 feet) inside the installation's boundary. For storage facilities of flammable liquids that require a permit or a notification, it must be determined by the appropriate German authority whether a surrounding safety corridor is required.
- C6.3.4.4 **Special Requirements for Incompatible Wastes.**
- C6.3.4.4.1 Incompatible wastes and materials must not be placed in the same container and must be stored and disposed of separately. Hazardous wastes to be

transported must be allocated a waste category (see Table C6.T2). Mixing waste categories (*Abfallgruppen*) is not permitted.

- C6.3.4.4.2 Hazardous waste must not be placed for storage purposes in an unwashed container that previously held an incompatible waste or material. All packaging, including containers, that are to be used for shipment of hazardous wastes must be free from contamination, regardless whether the contaminant is hazardous or non-hazardous.
- C6.3.4.4.3 A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers, piles, open tanks, or surface impoundments must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device.

C6.3.5 RECORDKEEPING REQUIREMENTS

- C6.3.5.1 Internal turn-in documents, e.g., DD 1348-1A or manifests, must be maintained for 3 years.
- C6.3.5.2 Hazardous Waste Log. A written log will be maintained at locations where a hazardous waste is picked up for off-site shipment to record all hazardous waste handled. The hazardous waste log should consist of the following:
 - C6.3.5.2.1 Name/address of the generating activity;
 - C6.3.5.2.2 Description and hazard class of the hazardous waste;
 - C6.3.5.2.3 Number and types of containers;
 - C6.3.5.2.4 Quantity of hazardous waste;
 - C6.3.5.2.5 Date stored;
 - C6.3.5.2.6 Storage location; and
 - C6.3.5.2.7 Disposition data, to include: dates received, sealed, and transported, and transporter used.
- C6.3.5.3 The Hazardous Waste Log will be available to emergency personnel in the event of a fire or spill. Logs will be maintained until closure of the installation.
- C6.3.5.4 Inspection Logs. Records of internal inspections should be maintained for a period of 3 years.
- C6.3.5.5 Manifests. Manifests of hazardous wastes that are transported off-site will be retained for a minimum period of 3 years following the last entry. The installation must prepare a logbook (*Nachweisbuch*) for all outgoing hazardous waste with the following contents: accompanying documentation (*Begleitscheine*),

acceptance slips (*Übernahmescheine*), disposal manifests (*Entsorgungsnachweise*) and simplified proof (*vereinfachter Nachweis*) with the corresponding waste characterization (*Deklarationsanalyse*).

C6.3.5.6 The installation will maintain records, identified in C6.3.5.1 to C6.3.5.5 in accordance with the following:

- C6.3.5.6.1 The waste generating activity and the DoD authority accepting hazardous waste from the waste generating activity for off-site transport will file internal turn-in documents, e.g., DD 1348-1A, manifests.
- C6.3.5.6.2 The hazardous waste generator will maintain the logbook (*Nachweisbuch*), including disposal documentation, as described in C6.3.5.5.

C6.3.6 CONTINGENCY PLAN

C6.3.6.1 Each installation will have a contingency plan that describes actions to be taken to contain and clean up spills and releases of hazardous waste in accordance with the provisions of Chapter 18, Spill Prevention and Response Planning.

C6.3.6.2 Copies of Contingency Plan. A current copy of the installation contingency plan must be:

- C6.3.6.2.1 Maintained at each HWSA and HWAP, (HWAPs need maintain only portions of the contingency plan which are pertinent to their facilities and operation); and
- C6.3.6.2.2 Submitted to on-site fire departments, on-site hospitals, and on-site emergency response teams identified in the plan, and which the plan relies upon to provide emergency services. Local German fire departments should be contacted and provided with a copy of the plan in order to improve their emergency response. Plans should be available in both English and German.

C6.3.7 TANK SYSTEMS

The following criteria apply to all storage tanks containing hazardous wastes. In Germany, no distinction is made between tank systems storing hazardous waste and tank systems storing hazardous materials. As a result, the requirements for tank systems storing hazardous materials as contained in C5.3.14 (Requirements for Facilities that Store, Distribute, and Handle Hazardous Substances) and C5.3.15 (Above-ground Storage Tanks) of Chapter 5, Hazardous Materials, are also applicable.

C6.3.7.1 The installation must inspect and log at least once each operating day:

- C6.3.7.1.1 The above-ground portions of the tank system, if any, to detect corrosion or releases of waste;

- C6.3.7.1.2 Data gathered from monitoring and leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design; and
- C6.3.7.1.3 The construction materials and the area immediately surrounding the externally accessible portion of the tank system, including the secondary containment system (e.g., dikes) to detect erosion or signs of releases of hazardous waste (e.g., wet spots, dead vegetation).
- C6.3.7.2 Response to Leaks or Spills and Disposition of Leaking or Unfit-For-Use Tank Systems. A tank system or secondary containment system from which there has been a leak or spill, or which is unfit for use, must be removed from service immediately and repaired or closed in accordance with Chapter 5, Hazardous Materials. In addition, installations must satisfy the following requirements:
- C6.3.7.2.1 The operation of the tank system must be ceased and the DoD installation must inspect the system to determine the cause of the release.
- C6.3.7.2.2 Containment of visible releases to the environment. The installation must immediately conduct an inspection of the release and, based upon that inspection:
- C6.3.7.2.2.1 Remove free product to the maximum extent possible.
- C6.3.7.2.2.2 Continue monitoring and mitigating for any additional fire and safety hazards posed by vapors or free products in subsurface structures.
- C6.3.7.3 Make required internal and external notifications and reports in accordance with criteria C18.3.3.5 and C18.3.4.4 of Chapter 18, Spill Prevention and Response Planning.
- C6.3.7.4 Closure.
- C6.3.7.4.1 At closure of a tank system, the storage tank must be emptied and cleaned by a certified company (*Fachbetrieb*) prior to it being inspected by a certified expert (*zugelassener Sachverständiger*). The installation must dispose of hazardous waste residues, contaminated containment system components (liners, etc.), contaminated soils to the extent practicable, and structures and equipment.
- C6.3.7.4.2 Additional requirements in **Hessen**
- C6.3.7.4.2.1 Closed tank systems must be checked to ensure that the filling nozzle has been removed so that the tank can no longer be used (*Schutz gegen irrtümliche Benutzung*).
- C6.3.7.4.2.2 Storage tanks do not need to be removed if conditions warrant (e.g., stability concerns).

C6.3.8 MANAGEMENT OF USED OIL AND BATTERIES

- C6.3.8.1 Used Oil Burned for Energy Recovery. Used oil may be burned only in facilities that have a permit issued by the German authorities.
- C6.3.8.2 Used Oil for Dust Suppression or Road Treatment. Used oil, hazardous waste, or used oil that is contaminated with hazardous waste is prohibited to be used for dust suppression or road treatment.
- C6.3.8.3 Used Oil Analysis for PCBs and Halogens. Prior to reprocessing, used oil must be sampled and analyzed for PCBs and halogens. This sampling and analysis is generally conducted by the contractor responsible for collecting and transporting the used oil to the reprocessing facility. Used oil with a PCB concentration of greater than 20 ppm or a total halogen concentration of 2,000 ppm or greater is prohibited from being recycled.
- C6.3.8.4 Prohibition of Mixing of Used Oil.
- C6.3.8.4.1 Used oils that can be reprocessed may not be mixed with other wastes or used oils.
- C6.3.8.4.2 Synthetic oils that contain PCBs or halogen-containing substitutes must be collected, stored, transported, and disposed of separately from other used oils.
- C6.3.8.5 Used Oil Declaration. When used oil is collected by a waste contractor from a DoD installation for reprocessing, the installation must furnish the contractor a written statement (e.g., a HWPS) that states the oil is not contaminated with additives, such as PCB-containing synthetic oils or their substitutes, or other substances that would prohibit reprocessing.
- C6.3.8.6 Used Oil Return System and Obligatory Labeling.
- C6.3.8.6.1 Sellers or distributors of combustion oil or lubricant oil must take the used oil back from the end user.
- C6.3.8.6.2 Sellers or distributors must provide clearly labeled used oil collection facilities near the point of sale or distribution.
- C6.3.8.6.3 Sellers or distributors of new oil must inform the user that the used oil must be returned to the point of sale or distribution, or a designated collection facility, and that it is not permitted to mix used oil with other substances, such as solvents, brake fluids, or coolant.
- C6.3.8.7 Lead-Acid Batteries. Used lead-acid batteries must be managed as hazardous wastes regardless of whether they are to be recycled or permanently disposed.

- C6.3.8.8 **Alkaline Manganese Batteries.** It is prohibited to sell or distribute the batteries identified in C6.3.8.8.1 and C6.3.8.8.2. Alkaline manganese round cells (*Alkali-Mangan-Knopfzellen*) or batteries composed of alkaline manganese round cells are not subject to this prohibition.
- C6.3.8.8.1 Alkaline manganese batteries that are designed for long-term use under extreme environmental conditions containing more than 0.05% of mercury by weight; and
- C6.3.8.8.2 Alkaline manganese batteries that do not meet the criteria of C6.3.8.8.1 and have a mercury content of more than 0.025% of mercury by weight.
- C6.3.8.9 **Batteries that Contain Harmful Substances.**
- C6.3.8.9.1 It is prohibited to sell or distribute appliances equipped with batteries that contain harmful substances (*schadstoffhaltige Batterien*), that cannot be easily removed by the user when the lifetime of the appliance ends. Batteries containing harmful substances (i.e., substances that are harmful to human health or the environment) include the following:
- batteries containing more than 25 milligrams (mg) of mercury per cell, with the exception of alkaline manganese batteries;
 - alkaline manganese batteries containing more than 0.025% of mercury by weight;
 - batteries containing more than 0.025% of cadmium by weight; and
 - batteries containing more than 0.4% of lead by weight.
- C6.3.8.9.2 The distributor or seller of batteries containing harmful substances must inform the user of potential hazards through the posting of clearly visible and intelligible signs. The signs must be placed where the batteries are handed over to the user and address the following:
- the available return system (either at the store or at a designated location near the store where the batteries were purchased);
 - that the user must return waste batteries for reuse, recycling, or safe disposal; and
 - the meaning of the warning sign and chemical symbol on the battery.

C6.3.9 HAZARDOUS WASTE TRAINING

- C6.3.9.1 **Application.** Personnel and their supervisors that are assigned duties involving actual or potential exposure to hazardous waste must successfully complete an appropriate training program prior to assuming those duties. All employees that work with hazardous waste must receive oral operating instructions prior to initiating work. Additional guidance is contained in DoDI 6050.5, "DoD Hazard Communication Program."

- C6.3.9.2 Refresher Training. All personnel performing HW duties must successfully complete annual refresher hazardous waste training.
- C6.3.9.3 Training Contents and Requirements. The training program must:
- C6.3.9.3.1 Include sufficient information to enable personnel to perform their assigned duties and fully comply with pertinent HW requirements;
 - C6.3.9.3.2 Be conducted by qualified trainers who have completed an instructor training program in the subject, have comparable academic credentials, or experience;
 - C6.3.9.3.3 Be designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems;
 - C6.3.9.3.4 Address the following areas in particular for personnel whose duties include hazardous waste handling and management:
 - C6.3.9.3.4.1 Emergency Procedures. Response to fire/explosion/ spills; use of communications/alarm systems; body and equipment clean up;
 - C6.3.9.3.4.2 Drum/Container Handling/Storage. Safe use of HW equipment; proper sampling procedures;
 - C6.3.9.3.4.3 Employee Protection. Personal Protective Equipment (PPE), safety and health hazards, hazard communication, worker exposure;
 - C6.3.9.3.4.4 Recordkeeping. Recordkeeping, security, inspections, contingency plans, storage requirements, transportation requirements.
- C6.3.9.4 Documentation of Training. Installations must document all hazardous waste training for each individual assigned duties involving actual or potential exposure to hazardous waste. Updated training records on personnel assigned duties involving actual or potential exposure to hazardous waste must be kept by the HWSA manager or the responsible installation office and retained for at least three years after termination of duty of these personnel.
- C6.3.10 HAZARDOUS WASTE DISPOSAL**
- C6.3.10.1 All DoD hazardous waste should normally be disposed of through the Defense Reutilization and Marketing Service (DRMS). A decision not to use the DRMS for hazardous waste disposal may be made in accordance with DoD Directive 4001.1 for best accomplishment of the installation mission, but should be concurred in by the component chain of command to ensure that installation contracts and disposal criteria are at least as protective as criteria used by DRMS.

- C6.3.10.2 To the maximum extent possible, hazardous waste that is generated in Germany, must be treated, recycled, or permanently disposed of within Germany. An export of hazardous waste is only permitted if no appropriate German treatment or disposal facility exists. If exported, disposal in a European Community member country has priority over disposal in another country.
- C6.3.10.2.1 If hazardous wastes are exported, appropriate notification procedures must be followed. The authorities of the Country or State of origin must be notified for waste transportation measures.
- C6.3.10.3 German facilities that store, treat, or dispose of DoD-generated waste must be evaluated and approved by the appropriate German authorities as complying with their regulatory requirements. This evaluation and approval may consist of having a valid German permit, license, or other form of official approval for the hazardous waste which will be handled.
- C6.3.10.4 Hazardous waste will be recycled or reused to the maximum extent practical. To minimize risks to health and the environment, safe and environmentally acceptable methods will be used to identify, store, prevent leakage, and dispose of hazardous waste.
- C6.3.10.5 Land Disposal Requirements. Hazardous waste may only be land disposed in landfill facilities that are permitted by the appropriate German authorities.
- C6.3.10.5.1 The operation of a hazardous waste landfill requires a plan approval (*Planfeststellung*) or a license.
- C6.3.10.6 Incinerator Standards. The operation of a hazardous waste incinerator or a hazardous waste-fueled incinerator requires a permit.
- C6.3.10.7 Treatment Technologies. The following treatment technologies may be used to reduce the volume or hazardous characteristics of wastes. Wastes, which are categorized as hazardous and which, after treatment as described herein, no longer exhibit any hazardous characteristic, may be disposed of as solid waste. Treatment residues of wastes categorized as hazardous will continue to be managed as hazardous wastes under the criteria of these FGS, including those for disposal. The treatment technologies listed below are provided as baseline treatment/disposal technologies for determining the suitability of disposal alternatives for hazardous wastes generated on DoD installations in Germany.
- C6.3.10.7.1 Organics.
- C6.3.10.7.1.1 Incineration in accordance with the requirements of C6.3.10.6.
- C6.3.10.7.1.2 The operation of a recycling facility or an incineration facility that use hazardous waste as a fuel source requires a permit.

- C6.3.10.7.1.3 **Biodegradation.** Wastes are degraded by microbial action. Such units will be operated under aerobic or anaerobic conditions so that the concentrations of a representative compound or indicator parameter (e.g., total organic carbon) has been substantially reduced in concentration. The level to which biodegradation must occur and the process time vary depending on the hazardous waste being biodegraded. The operation of a facility for the biodegradation of hazardous waste requires a permit.
- C6.3.10.7.1.4 **Recovery.** Wastes are treated to recover organic compounds. This will be done using, but not limited to, one or more of the following technologies: distillation; thin film evaporation; steam stripping; carbon adsorption; critical fluid extraction; liquid extraction; precipitation/crystallization or phase separation techniques, such as decantation, filtration and centrifugation when used in conjunction with one of the above techniques. The operation of a recovery facility for the treatment of hazardous waste requires a permit.
- C6.3.10.7.1.5 **Chemical Degradation.** The wastes are chemically degraded in such a manner so as to destroy hazardous constituents and control harmful emissions. The operation of a chemical degradation facility for the treatment of hazardous waste requires a permit.
- C6.3.10.7.2 **Heavy Metals.**
- C6.3.10.7.2.1 **Stabilization or Fixation.** Wastes are treated so that soluble heavy metals are fixed by oxidation/reduction, or by some other means which renders the metals immobile in a landfill environment. The operation of a facility for the treatment of hazardous waste via stabilization or fixation requires a permit.
- C6.3.10.7.2.2 **Recovery.** Wastes are treated to recover the metal fraction by thermal processing, precipitation, exchange, carbon absorption, or other techniques that yield non-hazardous levels of heavy metals in the residuals. The operation of a recovery facility for the treatment of hazardous waste requires a permit.
- C6.3.10.7.3 **Reactives.** Any treatment which changes the chemical or physical composition of a material so that it no longer exhibits hazardous properties. The operation of a facility for the treatment of hazardous waste requires a permit.
- C6.3.10.7.4 **Corrosives.** Corrosive wastes will be neutralized to a pH value between 6.0 and 9.0. Other acceptable treatments include recovery, incineration, chemical or electrolytic oxidation, chemical reduction, or stabilization. The operation of a facility for the treatment of hazardous waste requires a permit.

- C6.3.10.7.5 **Batteries.** DoD, as a seller or distributor of batteries in Germany, must accept waste batteries back from the user (*Rücknahmepflicht*) and is responsible for ultimately recycling the batteries or ensuring their safe disposal. This requirement is applicable to batteries of U.S. origin.
- C6.3.10.8 DoD hazardous waste generating activities shall not treat hazardous waste at the point of generation except for elementary neutralization.

C6.3.11 TENDERING OF WASTE REQUIRING SPECIAL SUPERVISION

C6.3.11.1 Baden-Württemberg

- C6.3.11.1.1 The generator (*Andienungspflichtige*) of waste requiring special supervision that is to be permanently disposed of (*beseitigen*), must tender (*andienen*) this waste to the central state agency (*Zentrale Stelle für Sonderabfälle*), if this waste is generated, treated, stored, or disposed of in *Baden-Württemberg*. In Baden-Württemberg, the *Sonderabfallagentur Baden-Württemberg GmbH* (SAA) is the central agency for tendering waste.
- C6.3.11.1.2 If waste that is to be permanently disposed of is exported outside the European Community, the associated notification (*Notifizierung*) is equivalent to a tendering (*Andienung*). The central state agency (*Zentrale Stelle für Sonderabfälle*) may require additional information about methodologies of disposal and operation of facilities as well as samples from the waste being disposed.
- C6.3.11.1.3 The generator of waste requiring a special supervision that is to be disposed is exempt from the obligation to tender the waste to the SAA in the following cases:
- C6.3.11.1.3.1 If the total quantity of waste requiring special supervision that is to be disposed of does not exceed 2,000 kg (2 metric tons) or the total quantity of each individual waste type does not exceed 1,000 kg (1 metric ton); however, it must be ensured that the waste contractor responsible for collection or final disposal fulfills the declaration requirements to the SAA.
- C6.3.11.1.3.2 If the waste requiring special supervision is collected and disposed of via collective disposal declaration (*Sammelentsorgungsnachweis*) by a waste contractor; the notification to the SAA must be made by the waste generator and the appropriate declaration must be provided to the central state agency (*andienungspflichtig*) by the waste contractor.
- C6.3.11.1.3.3 If waste requiring special supervision is disposed of in a certified facility operated by the waste generator that was in operation prior to 1 January 1996.

- C6.3.11.1.3.4 If waste requiring special supervision is collected by certified third parties or private waste contractors.
- C6.3.11.1.4 The generator of waste requiring special supervision must supply the waste to the facility that is approved by the SAA. This applies if the generator has tendered the wastes to the SAA. If waste must be subjected to physical, chemical, or biological treatment prior to disposal, the generator may propose an appropriate facility to the SAA.

C6.3.11.2 Bayern

- C6.3.11.2.1 Hazardous wastes requiring special supervision that are to be permanently disposed of must be tendered to a central state agency (*entsorgungspflichtige Körperschaft*). In Bayern, these agencies are the *Gesellschaft zur Beseitigung von Sondermüll GmbH* and the *SEF-Sonderabfall-Entsorgung Franken GmbH*.

C6.3.11.3 Hessen

- C6.3.11.3.1 The generator of waste requiring special supervision (*Andienungspflichtige*) must provide a written declaration to the central state agency (*Zentraler Träger*) that is responsible for ensuring the proper disposal of this type of waste.
- C6.3.11.3.2 The declaration must state the type, quantity, and origin of the waste and include the analysis of declaration (*Deklarationsanalyse*) and the declaration of the waste generator (*Verantwortliche Erklärung*). The central state agency (*Zentraler Träger*) may require additional information. If the waste is delivered to a contracted waste collector, this requirement applies to the contracted waste collector; however, any necessary analyses must be conducted at the expense of the waste generator (*Andienungspflichtige*).

C6.3.11.4 Rheinland-Pfalz

- C6.3.11.4.1 The generator of waste requiring special supervision (*Andienungspflichtige*) must provide a written declaration to the central state agency (*Zentraler Stelle für Sonderabfälle*) that is responsible for ensuring the proper disposal of the waste. In Rheinland-Pfalz, the *Sonderabfall-Management-Gesellschaft Rheinland-Pfalz mbH* (SAM) is the central agency.
- C6.3.11.4.2 If the generator proposes a contractor for the disposal of waste requiring special supervision, the generator must provide a statement of acceptance (*Annahmeerklärung*) of this contractor to the SAM in addition to the declaration.
- C6.3.11.4.3 The official Rheinland-Pfalz template must be used for the declaration. The template can be obtained from SAM.

C6.3.11.4.4 If waste requiring special supervision is collected and disposed of via collective disposal declaration (*Sammelentsorgungsnachweis*), the waste carrier is responsible for providing the appropriate declaration to the SAM (*andienungspflichtig*).

C6.3.12 ADDITIONAL REQUIREMENTS FOR THE TRANSPORT OF HAZARDOUS WASTE ON PUBLIC ROADS

C6.3.12.1 Hazardous wastes must be transported in such a manner so as to prevent a dangerous reaction among different hazardous waste streams.

C6.3.12.2 Classification

C6.3.12.2.1 Hazardous waste must be assigned a waste category (see Table C6.T2) prior to transport. The mixing of waste categories is specifically prohibited.

C6.3.12.2.2 The subcategory within a waste category (see Table C6.T2) must be determined prior to transport to ensure compatibility of the waste to be transported with the anticipated packaging material.

C6.3.12.3 Labeling

C6.3.12.3.1 Hazardous waste to be transported must be labeled in accordance with the ADR and USAREUR Regulation 55-4 / USAFE Instruction 24-203.

C6.3.12.3.2 After the determination of a UN number and name of the substance, the primary and secondary danger signs (as applicable) must be selected and used for labeling the transportation unit, container, tank or packaging (see C5.3.7.1, C5.3.7.2, and C5.3.13.2.2 of Chapter 5, Hazardous Materials). Packaging only requires an orange plate; with regard to the transportation unit, container, and tank, the plates must show the UN number in the lower half and the hazard identification number in the upper half.

C6.3.12.3.3 Depending on the type of dangerous good and quantity to be transported, the type of packaging must be selected. It must be distinguished between packaging and bulk goods transport.

C6.3.12.3.4 If goods cannot be identified by their name, they must be assigned to a class according to their physical, chemical, or other properties. Testing of goods may be required to assign the class. Using the collective name “not otherwise mentioned,” all possible wastes can be addressed that are not assigned a UN number and a substance name.

C6.3.12.4 Labeling of Transportation Vehicles for Hazardous Wastes

C6.3.12.4.1 Vehicles for transporting hazardous waste must be labeled according to the ADR or USAREUR Regulation 55-4 / USAFE Instruction 24-203.

C6.3.12.4.2 Vehicles for transporting hazardous waste on public roads must be labeled with two rectangular reflective white warning signs that have a baseline of 40 cm and are at least 30 cm high. During transportation, the warning signs must be clearly visible on the front and rear of the vehicle and must also be perpendicular to the axle. If the vehicle transports wastes for permanent disposal, the warning signs must bear the letter "A."

C6.3.12.5 See Chapter 5, Hazardous Materials, C5.3.3, for documentation requirements associated with the transport of hazardous waste.

C6.3.13 PERMITTED TRANSPORTATION AND DISPOSAL COMPANIES

C6.3.13.1 Wastes requiring special supervision and wastes for permanent disposal (*beseitigen*) must be transported by a company that has obtained a transportation permit.

C6.3.13.2 An approved disposal company does not require a transportation permit for the transport of wastes requiring special supervision and wastes for permanent disposal. Requirements applicable to approved disposal companies (*Entsorgungsfachbetriebe*) are addressed in C7.3.19.1 of Chapter 7, Solid Waste.

C6.3.14 WASTE MANAGEMENT OFFICER

C6.3.14.1 A Waste Management Officer (*Betriebsbeauftragter für Abfall*) must be appointed for the following activities: hazardous waste storage and disposal facilities, hazardous waste landfills, incinerators, hospitals and clinics, and plants for chemical or physical treatment of hazardous waste with a throughput of more than 0.5 metric tons (500 kg) per hour.

C6.3.14.2 The tasks of the Waste Management Officer are described in C7.3.19.3 of Chapter 7, Solid Waste.

C6.3.15 DANGEROUS GOODS ADVISOR AND RESPONSIBLE INDIVIDUAL

C6.3.15.1 Each DoD installation that is involved in transporting hazardous wastes that are considered dangerous goods, must appoint at least one Dangerous Goods Advisor (*Gefahrgutbeauftragter*). The responsibilities of the Dangerous Goods Advisor are addressed of Chapter 5, Hazardous Materials, C5.3.22.

C6.3.15.2 Responsible individuals (*beauftragte Personen*) who oversee the transport of dangerous goods and who are authorized to provide instructions, must be identified and trained by the DoD installation. Personnel handling dangerous goods must be instructed by the responsible individuals regarding the safe handling, loading, and unloading of the respective dangerous goods. Additional requirements regarding responsible individuals are addressed of Chapter 5, Hazardous Materials, C5.3.22.3.

C6.3.16 PROVISION OF STATISTICAL INFORMATION

DoD installations that operate hazardous waste facilities requiring a permit must provide statistical data on recycled waste types to the competent German authorities every 2 years. Additionally, upon request, the competent German authorities must be provided with, statistical data with respect to wastes requiring special supervision and border-crossing transport of hazardous wastes. Typically, individual State Agencies for Statistics (*Statistische Landesamt*) distributes standard forms to collect requested information.

C6.3.17 DAILY REMOVAL OF HAZARDOUS WASTE TO HWAP OR HWSA

Hazardous wastes generated at multiple areas within a HWAP, e.g., within shops or motor pools, shall be removed on a daily basis to a designated HWAP or HWSA.

Table C6.T1 Acceptable Disposal Documentation

Waste Category	Waste Type	Disposal Method	Generator Type	Method of Disposal Control	Transaction Control
Wastes requiring supervision <i>(überwachungsbedürftiger Abfall)</i>	Hazardous (non-hazardous wastes belonging to this category are discussed in Chapter 7, Solid Waste)	Recycling or permanent disposal (for example landfilling)	Private ¹	None	None
			Commercial	1. Simplified proof (<i>vereinfachter Nachweis</i>) or	1. Acceptance slip (<i>Übernahmeschein</i>)
				2. Simplified collective proof (<i>vereinfachter Sammelnachweis</i>).	2. Acceptance slip (<i>Übernahmeschein</i>)
				3. None, if a public disposal entity is commissioned for disposal.	3 General good management requirement to file documentation concerning these wastes (for example, invoices)
Wastes requiring special supervision <i>(besonders überwachungsbedürftiger Abfall)</i>	Hazardous	Recycling or permanent disposal (for example, landfilling)	Private ¹	None	None
			Commercial	1. Disposal manifest (<i>Entsorgungsnachweis</i>) or	1. Accompanying documentation (<i>Begleitschein</i>)
				2. Notification (<i>formlose Anzeige</i>) to the competent authorities by the waste generator based on the privileged proof procedure (<i>privilegiertes Nachweisverfahren</i>). Disposal may occur via collective proof (<i>Sammelentsorgung</i>).	2.1 Copy of the collective disposal manifest issued by the waste collector or transporter; and 2.2 Acceptance slip (<i>Übernahmeschein</i>)
				3. None, if the amounts do not exceed 2,000 kg (2 metric tons) of waste requiring special supervision and the waste is transported to the disposal company by DoD owned vehicles.	3.1 Acceptance slip (<i>Übernahmeschein</i>); and 3.2 Copy of the collective disposal manifest issued by the waste collector or transporter

¹. e.g., residential housing at housing areas or other DoD leased or owned private housing.

Table C6.T2 Classification of Waste into Waste Categories and Subcategories

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.1	2	5A, 5F and 5O	Compressed gas packages and containers, small, with gas (gas cartridges) with the following properties:				acetic acid, hydrocarbons
			Suffocating	2	5A	2	
			Inflammable	2	5F	3	
			Oxidizing	2	5O	2+05	
			i.e., spray cans containing color removing substances, body care substances, paint, anti-freezing substances, car care substances, leather sprays, portable fire extinguisher (also without protection cap).				
			Note: Items allowed according to ADR may be added to this group (i.e., carbon dioxide cartridges)				
1.2	2	5T, 5TF, 5TC, 5TO, 5TFC and 5TOC	Compressed gas packages and containers, small, with gas (gas cartridges) with the following properties:				
			Poisonous,	2	5T	6.1	
			Poisonous, inflammable,	2	5TF	6.1+3	

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Poisonous, corrosive,	2	5TC	6.1+8	
			Poisonous, oxidizing,	2	5TO	6.1+05	
			Poisonous, inflammable, corrosive or	2	5TFC	6.1+3+8	
			Poisonous, oxidizing, corrosive	2	5TOC	6.1+05+8	
			i.e., spray cans containing insecticides, pesticides, herbicides, disinfectants, leather sprays, anti freezing substances (also without protection cap)				
2.1	3	3b)	Inflammable, liquid, non poisonous, non corrosive waste with a flash point below 23°C, i.e., gasoline, ethyl alcohol, petroleum, alcohols except methanol, paint-, adhesive- and lacquer waste with the additional hazard "poisonous" as in group 3.	3	3b)	3	acetic acid, hydrocarbons
2.2	3	4a) and b)	Paint- and lacquer waste containing nitro cellulose	3	4a)	3	
2.3	3	5a) to c)	Paint-, adhesive- and lacquer waste Note: for hardening paste see waste group 8	3	5a)	3	

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3.1	3	16a) and b), 17a) and b), 19a) and b)	Inflammable, liquid, poisonous waste with a flash point below 23°C, i.e., waste oil, also containing small chlorine content (i.e., polychlorinated aromatic hydrocarbons) and waste containing methanol	3	19a)	3+6.1	acetic acid, hydrocarbons
3.2	6.1	15 to 17a) to c), 31a)	Waste containing halogenated hydrocarbons, i.e., trichlorethane, trichloreethylene, perchloreethylene, methylene chloride, carbon tetrachloride, chloroform, filter cartridges from chemical cleaning units, antiknock compounds	6.1	15a)	6.1+3	
3.3	9	2b) and 3	Polychlorinated biphenyls (PCBs) and terphenyls, also in packed small devices such as small capacitors* * - regarding PCBs in unpacked tools and machines see class 9, item 3 and devices with PCB, containing polychlorinated dibenzofurane (PCDF) of class 6.1, item 25.	9	b)	9	
3.4	3	41a) and b)	Waste containing liquid, inflammable, poisonous pesticides and herbicides	3	a)	3+6.1	
3.5	6.1	71 to 73	Waste containing liquid, poisonous, inflammable pesticides and herbicides	6.1	a)	6.1+3	
4.1	3	26a) and b)	Inflammable, liquid, corrosive waste with a flash point below 23°C	3	26a)	3+8	acetic acid,

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
4.2	3	27a) and b)	Inflammable, liquid, poisonous, and corrosive waste with a flash point below 23°C, including items containing these liquids	3	27a)	3+6.1+8	hydrocarbons
5.1	3	31)c, 34c)	Inflammable, liquid, non poisonous, and non corrosive waste with a flash point between 23°C and 61°C	3	31c)	3	acetic acid, hydrocarbons
5.2	3	32c)	Inflammable, liquid, weak poisonous waste with a flash point between 23°C and 61°C	3	32c)	3+6.1	
5.3	3	33c)	Inflammable, liquid, weak corrosive waste with a flash point between 23°C and 61°C	3	33c)	3+8	
6.1	4.1	4c), 6b) and c), 11b) and c)	Waste consisting of solid organic or inorganic substances that can contain non poisonous and non corrosive, inflammable, liquid substances with a flash point below 61°C, i.e., wood wool, sawdust, paper waste, rags, used car oil filter, oil binders contaminated with oil or grease	4.1	b)	4.1	
6.2	4.1	13b) and c)	Waste containing metal or metal alloys in powdered or in other inflammable form	4.1	13b)	4.1	
6.3	4.1	7b) and c), 16b) and c)	Waste containing poisonous, inflammable, solid, organic or inorganic substances	4.1	b)	4.1+6.1	
6.4	4.1	8b) and c), 17b) and c)	Waste containing corrosive, inflammable, solid, organic or inorganic substances	4.1	b)	4.1+8	

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
6.5	4.2	3c), 5b) and c)	Used rags, cleaning wool and similar waste, non poisonous, non-corrosive, contaminated with self-ignitable substances, i.e., certain oils and greases. Solid organic substances capable of self-heating, non-poisonous, non corrosive, i.e., granular or porous, inflammable substances contaminated or soaked with self-oxidizing substances, i.e., linseed oil, linseed varnish, varnish from other analogous oils, petroleum residues	4.2	5b)	4.2	
6.6	4.2	12b) and c)	Waste containing metal or metal alloys in powdered or in another self-ignitable form	4.2	12b)	4.2	
6.7	4.2	7b) and c), 18b) and c)	Organic and inorganic solid substances capable of self heating, poisonous	4.2	7b)	4.2+6.1	
6.8	4.2	9b) and c), 20b) and c)	Organic and inorganic solid substances capable of self-heating, corrosive	4.2	9b)	4.2+8	
6.9	4.2	13b) and c), 16b) and c)	Sulfides, hydrogen sulfides, and dithionite such as sodium dithionite and mixtures, i.e., textile color remover and solid, inorganic substances capable of self-heating, non poisonous, non corrosive	4.2	13b)	4.2	
6.10	4.3	13b) and c)	Waste containing metal or metal alloys in powdered or in another form that may develop inflammable gases when in contact with water	4.3	13b)	4.3	

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
7.1	4.3	17a) and b)	Metal carbides and metal nitrides such as calcium carbide, aluminum carbide	4.3	17)a	4.3	
7.2	4.3	18a)	Metal phosphides, poisonous such as calcium phosphide, aluminum phosphide	4.3	18a)	4.3+6.1	
7.3	6.1	43a)	Phosphide containing solid herbicides and pesticides	6.1	43a)	6.1	
7.4	9	5	Lithium batteries, also in amounts exempted according to ADR	9	5	9	
8.1	5.1	14b), 15b) and c), 27b) and c)	Waste containing inflammable (oxidizing) working substances such as swimming pool disinfectants containing sodium chlorite, calcium chlorite or mixtures of chlorites Note: See waste group 14 for solutions of swimming pool disinfectants containing chlorine	5.1	b)	5.1	nitric acid, 55%
8.2	5.1	29b) and c)	Waste containing inflammable (oxidizing) working substances, solid, poisonous	5.1	29b)	5.1+6.1	
8.3	5.1	31b) and c)	Waste containing inflammable (oxidizing) working substances, solid, corrosive	5.1	31b)	5.1+8	
8.4	5.2	4b), 6b), 8b) and 10 b)	Paste like waste containing dibenzoyl peroxide, dicumyl peroxide in cans and tubes, i.e., hardener for polyester resins	5.2	4b)	5.2	

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				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9.1	6.1	33a) to c), 52a) to c)	Solid and liquid waste containing organic and inorganic mercury compounds	6.1	a)	6.1	wetting agents
9.2	8	66c)	Note: Items containing mercury may be added to this group	8	66c)	8	
9.3	6.1	41a) to c)	Waste containing cyanide, i.e., gold or silver cleaning agents	6.1	41a)	6.1	
9.4	6.1	25a) to c), 65a) to c)	Solid and liquid waste containing organic or inorganic poisonous substances, non corrosive and non inflammable	6.1	a)	6.1	
9.5	6.1	27a) and b), 67a) and b)	Solid and liquid waste containing organic or inorganic poisonous substances, corrosive	6.1	a)	6.1+8	
9.6	6.1	26a) and b)	Solid and liquid waste containing organic or inorganic poisonous substances, inflammable	6.1	26a)	6.1+3	
9.7	6.1	71 to 87a) to c)	Solid and liquid herbicides and pesticides, except those listed in waste group 7	6.1	a)	6.1	
10	8	2b), 3a) and b), 4b)	Waste containing nitric acid and/ or perchloric acid, i.e., certain cleaning substances Note: perchloric acid, water-based solutions containing more than 72% pure acid must not be transported	8	3a)	8	Nitric acid, 55% wetting agents

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11.1	8	1b)	Waste containing sulfuric acid, i.e., certain cleaning substances, pastes for removing Bierstein, lead sulfate	8	1b)	8	Wetting agents
11.2	8	7b)	Waste containing hydrofluoric acid, i.e., certain cleaning substances	8	7b)	8+6.1	
11.3	8	76a) to c)	Liquid waste containing corrosive, poisonous substances	8	76a)	8+6.1	
11.4	8	5b) and c), 8a) to c), 10b), 12a) to c), 17a) to c), 32a) to c), 34b) and c), 35b) and c), 40a)to c)	Other corrosive, acidic liquid waste containing i.e., hydrochloric acid, phosphoric acid, acetic acid, chlorosulfonic acid, formic acid, chloroacetic acid, propionic acid, toluene sulfonic acid, thionyl chloride	8	a)	8	
12.1	8	11b) and c), 13b), 16a) to c), 39a) to c)	Corrosive, acidic, anhydrous solid waste, i.e., waste containing anhydrous iron trichloride, anhydrous zinc chloride, anhydrous aluminium chloride, phosphorous pentachloride	8	a)	8	
12.2	8	75a) to c)	Solid waste containing corrosive, poisonous substances	8	75a)	8+6.1	
13.1	8	43c)	Waste containing water-based ammonia solutions, with a maximum of 35% ammonia	8	43c)	8	Water, wetting agents

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
13.2	8	41b) and c), 42b) and c), 44b), 45b) and c), 46a) to c), 47a) to c), 52a) to c), 53a) to c), 54a) and b), 55a) to c), 56a) to c), 65a) to c), 66a) to c)	Other solid and liquid basic waste, i.e., certain cleaning substances containing sodium and/ or potassium hydroxide and soda lime, burnishing substances containing sodium and/ or potassium sulfide (dish washing agents or decalcifying agents containing sodium metasilicate, lime solutions containing calcium hydroxide	8	a)	8	
13.3	8	63)	Waste containing formaldehyde, i.e., certain cleaning substances, disinfection substances	8	63c)	8	
14.1	8	61b) and c)	Waste containing hypochlorite solutions, i.e., certain chlorine bleaching substances, solutions containing chlorinated swimming pool disinfectants of waste group 8	8	61b)	8	Salpetre acid, 55% wetting agents
14.2	5.1	28b) and c)	Waste containing inflammable (oxidizing) working liquid substances	5.1	28b)	5.1	
14.3	5.1	1b) and c), 32b) and c)	Waste containing solutions of hydrogen peroxide, i.e., certain cleaning substances, hair coloring substances	5.1	1b)	5.1+8	

Waste Category and Sub-Category	ADR Class	ADR Item Number and Letter	ADR Name	Information in Transport Document (Beförderungspapier)		ADR Danger Label (Gefahrzettel)	Plastic Packaging must be Chemically Resistant for the Following Standard Liquids
				Class	Item Number and Letter		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
14.4	5.1	30b) and c)	Waste containing inflammable (oxidizing) working substances, liquid, poisonous	5.1	30b)	5.1+6.1	
15			Not identified hazardous waste. Note: special regulations apply for these wastes			11 Additionally, "hazardous material - not identified" signs must be placarded on at least 2 sides	

Table C6.T3 European Waste List – Designated Hazardous Wastes

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
01	ABFÄLLE, DIE BEIM AUFSUCHEN, AUSBEUTEN, UND GEWINNEN SOWIE BEI DER PHYSIKALISCHEN UND CHEMISCHEN BEHANDLUNG VON BODENSCHÄTZEN ENTSTEHEN	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 03	Abfälle aus der physikalischen und chemischen Verarbeitung von metallhaltigen Bodenschätzten	Wastes from physical and chemical processing of metalliferous minerals
01 03 04	Säure bildende Aufbereitungsrückstände aus der Verarbeitung von sulfideschem Erz	acid-generating tailings from processing of sulphide ore
01 03 05	andere aufbereitungsrückstände, die gefährliche Stoffe enthalten	other tailings containing dangerous substances
01 03 07	andere, gefährliche Stoffe enthaltende Abfälle aus der physikalischen und chemischen Verarbeitung von metallhaltigen Bodenschätzten	other waste containing dangerous substances from physical and chemical processing of metalliferous minerals
01 04	Abfälle aus der physikalischen und chemischen Weiterverarbeitung von nichtmetallhaltigen Bodenschätzten	Wastes from physical and chemical processing of non-metalliferous minerals
01 04 07	gefährliche Stoffe enthaltende Abfälle aus der physikalischen und chemischen Weiterverarbeitung von nichtmetallhaltigen Bodenschätzten	wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
01 05	Bohrschlämme und andere Bohrabfälle	Drilling muds and other drilling wastes
01 05 05	ölhaltige Bohrschlämme und – abfälle	oil-containing drilling muds and wastes
01 05 06	Bohrschlämme und andere Bohrabfälle, die gefährliche Stoffe enthalten	drilling muds and other drilling wastes containing dangerous substances
02	ABFÄLLE AUS LANDWIRTSCHAFT, GARTENBAU, TEICHWIRTSCHAFT, FORSTWIRTSCHAFT, JAGD UND FISCHEREI SOWIE DER HERSTELLUNG UND VERARBEITUNG VON NAHRUNGSMITTELN	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	Abfälle aus Landwirtschaft, Gartenbau, Teichwirtschaft, Forstwirtschaft, Jagd und Fischerei	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
02 01 08	Abfälle von Chemikalien für die Landwirtschaft, die gefährliche Stoffe enthalten	agrochemical waste containing dangerous substances
03	ABFÄLLE ZUS DER HOLZBEARBEITUNG UND DER HERSTELLUNG VON PLATTEN, MÖBELN, ZELLSTOFFEN, PAPIER UND PAPPE	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	Abfälle aus der Holzbearbeitung und der Herstellung von Platten und Möbeln	Wastes from wood processing and the production of panels and furniture
03 01 04	Sägemehl, Späne, Abschnitte, Holz, Spanplatten und Furnier, die gefährliche Stoffe enthalten	sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances
03 02	Abfälle aus der Holzkonservierung	Wastes from wood preservation
03 02 01	halogenfrei organische Holzschutzmittel	non-halogenated organic wood preservatives
03 02 02	chlororganische Holzschutzmittel	organochlorinated wood preservatives
03 02 03	metallorganische Holzschutzmittel	organometallic wood preservatives
03 02 04	anorganische Holzschutzmittel	inorganic wood preservatives
03 02 05	andere Holzschutzmittel, die gefährliche Stoffe enthalten	other wood preservatives containing dangerous substances
04	ABFÄLLE AUS DER LEDER-, PELZ-, UND TEXTILINDUSTRIE	WASTES FROM THE LEATHER, FUR, AND TEXTILE INDUSTRIES
04 01	Abfälle aus der Leder- und Pelzindustrie	Wastes from the leather and fur industry
04 01 03	Entfettungsabfälle, Lösemittelhaltig, ohne flüssige Phase	degreasing wastes containing solvents without a liquid phase
04 02	Abfälle aus der Textilindustrie	Wastes from the textile industry
04 02 14	Abfälle aus dem Finish, die organische Lösungsmittel enthalten	waste from finishing containing organic solvents
04 02 16	Farbstoffe und Pigmente, die gefährliche Stoffe enthalten	dyestuffs and pigments containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
04 02 19	Schlämme aus der betriebseigenen Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
05	ABFÄLLE AUS DER ERDÖLRAFFINATION, ERDGASREINIGUNG, UND KOHLEPYROLYSE	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION, AND PYROLYTIC TREATMENT OF COAL
05 01	Abfälle aus der Erdölraffination	Wastes from petroleum refining
05 01 02	Entsalzungsschlämme	desalter sludges
05 01 03	Bodenschlämme aus Tanks	tank bottom sludges
05 01 04	saure Alkylschlämme	acid alkyl sludges
05 01 05	Verschüttetes Öl	oil spills
05 01 06	ölhaltige Schlämme aus Betriebsvorgängen und Instandhaltung	oily sludges from maintenance operations of the plant or equipment
05 01 07	Säureteere	acid tars
05 01 08	andere Teere	other tars
05 01 09	Schlämme aus der etriebseigenen Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from off-site effluent treatment containing dangerous substances
05 01 11	Abfälle aus der Brennstoffreinigung mit Basen	wastes from cleaning of fuels with bases
05 01 12	säurehaltige Öle	oil containing acids
05 01 15	gebrauchte Filtertöne	spent filter clays
05 06	Abfälle aus der Kohlepyrolyse	wastes from the pyrolytic treatment of coal
05 06 01	Säureteere	acid tars
05 06 03	andere Teere	other tars
05 07	Abfälle aus Ergasreinigung und -transport	wastes from natural gas purification and transportation

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
05 07 01	quecksilberhaltige Abfälle	wastes containing mercury
06	ABFÄLLE AUS ANORGANISCH-CHEMISCHEMEN PROZESSEN	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01	Abfälle aus Herstellung, Zubereitung, Vertrieb und Anwendung (HZVA) von Säuren	Wastes from the manufacture, formulation, supply, and use (MFSU) of acids
06 01 01	Schwefelsäure und schweflige Säure	sulphuric acid and sulphurous acid
06 01 02	Salzsäure	hydrochloric acid
06 01 03	Flusssäure	hydrofluoric acid
06 01 04	Phosphorsäure und phosphorige Säure	phosphoric and phosphorous acid
06 01 05	Salpetersäure und salpetrige Säure	nitric acid and nitrous acid
06 01 06	andere Säuren	other acids
06 02	Abfälle aus HZVA von Basen	Wastes from the MFSU of bases
06 02 01	Calciumhydroxid	calcium hydroxide
06 02 03	Ammoniumhydroxid	ammonium hydroxide
06 02 04	Natrium - und Kaliumhydroxid	sodium and potassium hydroxide
06 02 05	andere Basen	other bases
06 03	Abfälle aus HZVA von Salzen, Salzlösungen, und Metalloxiden	Wastes from the MFSU of salts and their solutions and metallic oxides
06 03 11	feste Salze und Lösungen, die Cyanid enthalten	solid salts and solutions containing cyanides
06 03 13	feste Salze und Lösungen, die Schwermetalle enthalten	solid salts and solutions containing heavy metals
06 03 15	Metalloxide, die Schwermetalle enthalten	metallic oxides containing heavy metals
06 04	Metallhaltige Abfälle mit Ausnahme derjenigen, die unter 06 03 fallen	metal containing wastes other than those mentioned in 06 03

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
06 04 03	arsenhaltige Abfälle	wastes containing arsenic
06 04 04	quecksilberhaltige Abfälle	wastes containing mercury
06 04 05	Abfälle, die andere Schwermetalle enthalten	wastes containing other heavy metals
06 05	Schlämme aus der betriebseigenen Abwasserbehandlung	wastes from on-site effluent treatment
06 05 02	Schlämme aus der betriebseigenen Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
06 06	Abfälle aus HZVA von schwefelhaltigen Chemikalien, aus Schwefelchemie und Entschwefelungsprozessen	wastes from the MFSU of sulphur chemicals, sulphur chemical processes, and desulphurisation processes
06 06 02	Abfälle, die gefährliche Sulfide enthalten	wastes containing dangerous sulphides
06 07	Abfälle aus HZVA von Halogenen und aus der Halogenchemie	wastes from the MFSU of halogens and halogen chemical processes
06 07 01	asbesthaltige Abfälle aus der Elektrolyse	wastes containing asbestos from electrolysis
06 07 02	Aktivkohle aus der Chlorherstellung	activated carbon from chlorine production
06 07 03	quecksilberhaltige Bariumsulfatschlämme	barium sulphate sludge containing mercury
06 07 04	Lösungen und Säuren, z.B. Kontaktäsüre	solutions and acids, for example contact acid
06 08	Abfälle aus HZVA von Silizium und Siliziumverbindungen	wastes from the MFSU of silicon and silicon derivatives
06 08 02	gefährliche Chlorsilane enthaltende Abfälle	wastes containing chlorosilanes
06 09	Abfälle aus HZVA von phosphorhaltigen Chemikalien aus der Phosphorchemie	wastes from the MFSU of phosphorus chemicals and phosphorus chemical processes
06 09 03	Reaktionsabfälle auf Calciumbasis, die gefährliche Stoffe enthalten	calcium based reaction wastes containing or contaminated with dangerous substances
06 10	Abfälle aus HZVA von stickstoffhaltigen Chemikalien aus der Stickstoffchemie und der Herstellung von Düngemitteln	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertilizer manufacture

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
06 10 02	Abfälle, die gefährliche Stoffe enthalten	wastes containing dangerous substances
06 13	Abfälle aus anorganischen chemischen Prozessen a.n.g.	wastes from inorganic processes not otherwise specified
06 13 01	anorganischen Pflanzenschutzmittel, Holzschutzmittel und andere Biocide	inorganic plant protection products, wood-preserving agents and other biocides
06 13 02	gebrauchte Aktivkohle (außer 06 07 02)	spent activated carbon (except 06 07 02)
06 13 04	Abfälle aus der Asbesverarbeitung	wastes from asbestos processing
06 13 05	Ofen- und Kaminruß	soot
07	ABFÄLLE AUS ORGANISCH-CHEMISCHEN PROZESSEN	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01	Abfälle aus Herstellung, Zubereitung, Vertrieb, und Anwendung (HZVA) organischer Grundchemikalien	Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 01	wässrige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 01 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 01 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors
07 01 07	halogenierte Reaktions - und Destillationsrückstände	halogenated still bottoms and reaction residues
07 01 08	andere Reaktions - und Destillationsrückstände	other still bottoms and reaction residues
07 10 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 10 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents
07 10 11	Schlämme aus der betriebseigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
07 02	Abfälle aus HZVA von Kunststoffen, synthetischem Gummi und Kunstoffasern	Wastes from the MFSU of plastics, synthetic rubber and man-made fibres

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
07 02 01	wässrige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 02 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 02 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors
07 02 07	halogenierte Reaktions - und Destillationrückstände	halogenated still bottoms and reaction residues
07 02 08	andere Reaktions - und Destillationrückstände	other still bottoms and reaction residues
07 02 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 02 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents
07 02 11	Schlämme aus der betriebseigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
07 02 14	Abfälle von Zusatzstoffen, die gefährliche Stoffe enthalten	Wastes from additives containing dangerous substances
07 02 16	gefährliche Silicone enthaltende Abfälle	Wastes containing silicone
07 03	Abfälle aus HZVA von organische Farbstoffen und Pigmenten (außer 06 11)	Wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 01	wässrige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 03 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 03 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors
07 03 07	halogenierte Reaktions - und Destillationsrückstände	halogenated still bottoms and reaction residues
07 03 08	andere Reaktions - und Destillationsrückstände	other still bottoms and reaction residues
07 03 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 03 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
07 03 11	Schlämme aus der betriebseigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
07 04	Abfälle aus HZVA von organische Pflanzenschutzmitteln (außer 02 01 08 und 02 01 09), Holzschutzmitteln (außer 03 02) und anderen Biocide	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	wässerige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 04 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 04 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors
07 04 07	halogenierte Reaktions - und Destillationsrückstände	halogenated still bottoms and reaction residues
07 04 08	andere Reaktions - und Destillationsrückstände	other still bottoms and reaction residues
07 04 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 04 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents
07 04 11	Schlämme aus der betriebseigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
07 04 13	fest Abfälle, die gefährliche Stoffe enthalten	solid wastes containing dangerous substances
07 05	Abfälle aus HZVA von Pharmazeutika	Wastes from the MFSU of pharmaceuticals
07 05 01	wässerige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 05 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 05 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors
07 05 07	halogenierte Reaktions - und Destillationsrückstände	halogenated still bottoms and reaction residues
07 05 08	andere Reaktions - und Destillationsrückstände	other still bottoms and reaction residues

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
07 05 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 05 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents
07 05 11	Schlämme aus der betriebs eigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
07 05 13	fest Abfälle, die gefährliche Stoffe enthalten	solid wastes containing dangerous substances
07 06	Abfälle aus HZVA von Fetter, Schmierstoffen, Seifen, Waschmitteln, Desinfektionsmitteln, und Körperpflegemitteln	Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants, and cosmetics
07 06 01	wässrige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 06 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 06 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors
07 06 07	halogenierte Reaktions - und Destillationsrückstände	halogenated still bottoms and reaction residues
07 06 08	andere Reaktions - und Destillationsrückstände	other still bottoms and reaction residues
07 06 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 06 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents
07 06 11	Schlämme aus der betriebseigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
07 07	Abfälle aus HZVA von Feinchemikalien und Chemikalien a.n.g.	Wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 01	wässrige Waschflüssigkeiten und Mutterlaugen	aqueous washing liquids and mother liquors
07 07 03	halogenorganische Lösemittel, Waschflüssigkeiten und Mutterlaugen	organic halogenated solvents, washing liquids, and mother liquors
07 07 04	andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen	other organic solvents, washing liquids, and mother liquors

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
07 07 07	halogenierte Reaktions - und Destillationsrückstände	halogenated still bottoms and reaction residues
07 07 08	andere Reaktions - und Destillationsrückstände	other still bottoms and reaction residues
07 07 09	halogenierte Filterkuchen, gebrauchte Aufsaugmaterialien	halogenated filter cakes and spent absorbents
07 07 10	andere Filterkuchen, gebrauchte Aufsaugmaterialien	other filter cakes and spent absorbents
07 07 11	Schlämme aus der betriebseigene Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
08	ABFÄLLE AUS HZVA VON BESCHICHTUNGEN (FARBEN, LACKE, EMAIL), KLEBSTOFFEN, DICHTMASSEN UND DRUCKFARBEN	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01	Abfälle aus HZVA und Entfernung von Farben und Lacken	Wastes from MFSU and removal of paint and varnish
08 01 11	Farb- und Lackabfälle, die organische Lösemittel oder andere gefährliche Stoffe enthalten	waste paint and varnish containing organic solvents or other dangerous substances
08 01 13	Farb- oder Lackschlämme, die organische Lösemittel oder andere gefährliche Stoffe enthalten	Sludges from paint or varnish containing organic solvents of other dangerous substances
08 01 15	wässrige Schlämme, die Farben oder Lacke mit organischen Lösemitteln oder andere gefährlichen Stoffe enthalten	aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances
08 01 17	Abfälle aus der Farb- oder Lackentfernung, die organische Lösemittel oder andere gefährliche Stoffe enthalten	wastes from paint or varnish removal containing organic solvents or other dangerous substances
08 01 19	wässrige Ssuspensionen, die Farben oder Lacke mit organischen Lösemitteln oder andere gefährlichen Stoffe enthalten	aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances
08 01 21	Farb- oder Lackentfernerabfälle	waste paint or varnish remover
08 03	Abfälle aus HZVA von Druckfarben	wastes from MFSU of printing inks
08 03 12	Druckfarbenabfälle die gefährliche Stoffe enthalten	waste ink containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
08 03 14	Druckfarbenschlämme, die gefährliche Stoffe enthalten	ink sludges containing dangerous substances
08 03 16	Abfälle von Ätzlösungen	waste etching solutions
08 03 17	Tonerabfälle, die gefährliche Stoffe enthalten	waste printing toner containing dangerous substances
08 03 19	Dispersionsöl	disperse oil
08 04	Abfälle aus HZVA von Klebstoffen und Dichtmassen (einschließlich wasserabweisender Materialien)	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09	Klebstoff- und Dichtmassenabfälle, die organische Lösemittel oder andere gefährliche Stoffe enthalten	waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 11	Klebstoff- und Dichtmassenhaltige Schlämme, die organische Lösemittel oder andere gefährliche Stoffe enthalten	adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 13	wässrige Schlämme, die Klebstoffe oder Dichtmassen mit organischen Lösemitteln oder andere gefährlichen Stoffe enthalten	aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances
08 04 15	wässrige flüssige Abfälle, die Klebstoffe oder Dichtmassen mit organischen Lösemitteln oder andere gefährlichen Stoffe enthalten	aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances
08 04 17	Harzöle	rosin oil
08 05	Nicht unter 08 aufgeführte Abfälle	wastes not otherwise specified in 08
08 05 01	isocyanatabfälle	waste isocyanates
09	ABFÄLLE AUS DER FOTOGRAFISCHEN INDUSTRIE	<i>Wastes from the Photographic Industry</i>
09 01	Abfälle aus der fotografischen Industrie	Wastes from the photographic industry
09 01 01	Entwickler und Aktivatorenlösungen auf Wasserbasis	water-based developer and activator solutions
09 01 02	offsetdruckplatten-Entwicklerlösungen auf Wasserbasis	water-based offset plate developer solutions
09 01 03	Entwicklerlösungen auf Lösemittelbasis	solvent-based developer solutions

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
09 01 04	Fixierbäder	fixer solutions
09 01 05	Bleichlösungen und Bleich-Fixier-Bäder	bleach solutions and bleach fixer solutions
09 01 06	silberhaltige Abfälle aus der betriebseigenen Behandlung fotografischer Abfälle	wastes containing silver from on-site treatment of photographic wastes
09 01 11	Einwegkameras mit Batterien, die unter 16 06 01, 16 06 02 oder 16 06 03 fallen	single-use cameras containing batteries included in 16 06 01, 16 06 02, or 16 06 03.
09 01 13	wässrige flüssige Abfälle aus der betriebseigenen Silberrückgewinnung mit Ausnahme derjenigen, die unter 09 01 06 fallen	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06.
10	ABFÄLLE AUS THERMISCHEN PROZESSEN	WASTES FROM THERMAL PROCESSES
10 01	Abfälle Aus Kraftwerken und anderen Verbrennungsanlagen (außer 19)	wastes from power stations and other combustion plants (except 19)
10 01 04	Filterstäube und Kesselstaub aus Ölfeuerung	oily fly ash and boiler dust
10 01 09	Schwefelsäure	sulphuric acid
10 01 13	Filterstäube aus emulgierten, als Brennstoffe verwendeten Kohlenwasserstoffen	fly ash from emulsified hydrocarbons used as fuels
10 01 14	Rost- und Kesselasche, Schlacken und Kesselstaug aus der Abfallmitverbrennung, die gefährliche Stoffe enthalten	bottom ash, slag and boiler dust from co-incineration containing dangerous substances
10 01 16	Filterstäube aus der Abfallmitverbrennung, die gefährliche Stoffe enthalten	fly ash from co-incineration containing dangerous substances
10 01 18	Abfälle aus der Abgasbehandlung, die gefährliche Stoffe enthalten	wastes from gas cleaning containing dangerous substances
10 01 20	Schlämme aus der betriebseigenen Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
10 01 22	wässrige Schlämme aus der Kesselreinigung, die gefährliche Stoffe enthalten	aqueous sludges from boiler cleansing containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
10 02	Abfälle aus der Eisen- und Stahlindustrie	wastes from the iron and steel industry
10 02 07	feste Abfälle aus der Abgasbehandlung, die gefährliche Stoffe enthalten	solid wastes from gas treatment containing dangerous substances
10 02 11	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 02 13	Schlämme und Filterkuchen aus der Abgasbehandlung, die gefährliche Stoffe enthalten	sludges and filter cakes from gas treatment containing dangerous substances
10 03	Abfälle aus der thermischen Aluminium-Metallurgie	wastes from aluminum thermal metallurgy
10 03 04	Schlacken aus der Erstschmelze	primary production slags
10 03 08	Salzschlacken aus der Zweitschmelze	salt slags from secondary production
10 03 09	schwarze Kräten aus der Zweitschmelze	black drosses from secondary production
10 03 15	Abschaum, der entzündlich ist oder in Kontakt mit Wasser entzündliche Gase in gefährlicher Menge abgibt	skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 03 17	teerhaltige Abfälle aus der Anodenherstellung	tar-containing wastes from anode manufacture
10 03 19	Filterstaub, der gefährliche Stoffe enthält	flue-gas dust containing dangerous substances
10 03 21	ander Teilchen und Staub (einschließlich Kugelmühlenstaub), die gefährliche Stoffe enthalten	other particulates and dust (including ball-mill dust) containing dangerous substances
10 03 23	feste Abfälle aus der Abgasbehandlung, die gefährliche Stoffe enthalten	solid wastes from gas treatment containing dangerous substances
10 03 25	Schlämme und Filterkuchen aus der Abgasbehandlung, die gefährliche Stoffe enthalten	sludges and filter cakes from gas treatment containing dangerous substances
10 03 27	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 03 29	gefährliche Stoffe enthaltende Abfälle aus der Behandlung von Salzschlacken und schwarzen Kräten	wastes from treatment of salt slags and black drosses containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
10 04	Abfälle aus der thermischen Bleimetallurgie	wastes from lead thermal metallurgy
10 04 01	Schlacken (Erst- und Zweitschmelze)	slags from primary and secondary production
10 04 02	Krätsen und Abschaum (Erst- und Zweitschmelze)	dross and skimmings from primary and secondary production
10 04 03	Calciumarsenat	calcium arsenate
10 04 04	Filterstaub	flue-gas dust
10 04 05	andere Teilchen und Staub	other particulates and dust
10 04 06	feste Abfälle aus der Abgasbehandlung	solid wastes from gas treatment
10 04 07	Schlämme und Filterkuchen aus der Abgasbehandlung	sludges and filter cakes from gas treatment
10 04 09	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 05	Abfälle aus der thermischen Zinkmetallurgie	wastes from zinc thermal metallurgy
10 05 03	Filterstaub	flue-gas dust
10 05 05	feste Abfälle aus der Abgasbehandlung	solid wastes from gas treatment
10 05 06	Schlämme und Filterkuchen aus der Abgasbehandlung	sludges and filter cakes from gas treatment
10 05 08	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 05 10	Krätsen und Abschaum, der entzündlich ist oder in Kontakt mit Wasser entzündliche Gase in gefährlicher Menge abgeben	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 06	Abfälle aus der thermischen Kupfermetallurgie	wastes from copper thermal metallurgy
10 06 03	Filterstaub	flue-gas dust
10 06 06	feste Abfälle aus der Abgasbehandlung	solid wastes from gas treatment
10 06 07	Schlämme und Filterkuchen aus der Abgasbehandlung	sludges and filter cakes from gas treatment

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
10 06 09	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 07	Abfälle aus der thermischen Silber-, Gold-, und Platinmetallurgie	wastes from silver, gold and platinum thermal metallurgy
10 07 07	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 08	Abfälle aus sonstiger thermischer Nichteisenmetallurgie	wastes from other non-ferrous thermal metallurgy
10 08 08	Salzschlacken (Erst- und Zweitschmelze)	salt slag from primary and secondary production
10 08 10	Krätsen und Abschaum, der entzündlich ist oder in Kontakt mit Wasser entzündliche Gase in gefährlicher Menge abgeben	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 08 12	teerhaltige Abfälle aus der Anodenherstellung	tar-containing wastes from anode manufacture
10 08 15	Filterstaub, die gefährliche Stoffe enthält	flue-gas dust containing dangerous substances
10 08 17	Schlämme und Filterkuchen aus der Abgasbehandlung, die gefährliche Stoffe enthalten	sludges and filter cakes from gas treatment containing dangerous substances
10 08 19	ölhaltige Abfälle aus der Kühlwasserbehandlung	wastes from cooling-water treatment containing oil
10 09	Abfälle vom Gießen von Eisen und Stahl	wastes from casting of ferrous pieces
10 09 05	gefährliche Stoffe enthaltende Gießformen und –sande vor dem Gießen	casting cores and moulds which have not undergone pouring containing dangerous substances
10 09 07	gefährliche Stoffe enthaltende Gießformen und –sande nach dem Gießen	casting cores and moulds which have undergone pouring containing dangerous substances
10 09 09	Filterstaub, die gefährliche Stoffe enthält	flue-gas dust containing dangerous substances
10 09 11	andere Teilchen, die gefährliche Stoffe enthalten	other particulates containing dangerous substances
10 09 13	Abfälle von Bindemitteln, die gefährliche Stoffe enthalten	waste binders containing dangerous substances
10 09 15	Abfälle aus rissanzeigenden Substanzen, die gefährliche Stoffe enthalten	wastes crack-indicating agent containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
10 10	Abfälle vom Gießen von Nichteismetallen	wastes from casting of non-ferrous pieces
10 10 05	gefährliche Stoffe enthaltende Gießformen und –sande vor dem Gießen	casting cores and moulds which have not undergone pouring containing dangerous substances
10 10 07	gefährliche Stoffe enthaltende Gießformen und –sande nach dem Gießen	casting cores and moulds which have undergone pouring containing dangerous substances
10 10 09	Filterstaub, die gefährliche Stoffe enthält	flue-gas dust containing dangerous substances
10 10 11	andere Teilchen, die gefährliche Stoffe enthalten	other particulates containing dangerous substances
10 10 13	Abfälle von Bindemitteln, die gefährliche Stoffe enthalten	waste binders containing dangerous substances
10 10 15	Abfälle aus rissanzeigenden Substanzen, die gefährliche Stoffe enthalten	wastes crack-indicating agent containing dangerous substances
10 11	Abfälle aus der Herstellung von Glas und Glaserzeugnissen	wastes from manufacture of glass and glass products
10 11 09	Gemengeabfall mit gefährlichen Stoffen vor dem Schmelzen	waste preparation mixture before thermal processing, containing dangerous substances
10 11 11	Glasabfall in kleinen Teilchen und Glasstaub, die Schwermetalle enthalten (z.B. aus Elektronenstrahlröhren)	waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
10 11 13	Glaspolier- und Glasschleifschlämme, die gefährliche Stoffe enthalten	glass-polishing and grinding sludge containing dangerous substances
10 11 15	feste Abfälle aus der Abgasbehandlung, die gefährliche Stoffe enthalten	solid wastes from flue-gas treatment containing dangerous substances
10 11 17	Schlämme und Filterkuchen aus der Abgasbehandlung, die gefährliche Stoffe enthalten	sludges and filter cakes from flue-gas treatment containing dangerous substances
10 11 19	feste Abfälle aus der betriebseigenen Abwasserbehandlung, die gefährliche Stoffe enthalten	solid wastes from on-site effluent treatment containing dangerous substances
10 12	Abfälle aus der Herstellung von Keramikerzeugnissen und keramischen Baustoffen wie Ziegeln, Fliesen, Steinzeug	wastes from manufacture of ceramic goods, bricks, tiles, and construction products

EWG	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
10 12 09	feste Abfälle aus der Abgasbehandlung, die gefährliche Stoffe enthalten	solid wastes from flue-gas treatment containing dangerous substances
10 12 11	Glasurabfälle, die Schwermetalle enthalten	wastes from glazing containing dangerous substances
10 13	Abfälle aus der Herstellung von Zement, Branntkalk, Gips, und Erzeugnissen aus diesen	wastes from manufacture of cement, lime, and plaster and articles and products made from them
10 13 09	asbesthaltige Abfälle aus der Herstellung von Asbestzement	wastes from asbestos -cement manufacture containing asbestos
10 13 12	feste Abfälle aus der Abgasbehandlung, die gefährliche Stoffe enthalten	solid wastes from gas treatment containing dangerous substances
10 14	Abfälle aus Krematorien	wastes from crematoria
10 14 01	quecksilberhaltige Abfälle aus der Gasreinigung	wastes from gas cleaning containing mercury
11	ABFÄLLE AUS DER CHEMISCHEN OBERFLÄCHENBEARBEITUNG UND BESCHICHTUNG VON METALLEN UND ANDEREN WERKSTOFFEN; NICHEISEN-HYDROMETALLURGIE	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
11 01	Abfälle aus der chemischen Oberflächenbearbeitung und Beschichtung von Metallen und anderen Werkstoffen (z.B. Galvanik, Verzinkung, Beizen, Ätzen, Phosphatieren, alkalisches Entfetten und Anodisierung)	wastes from chemical surface treatment and coating of metals and other materials (for example, galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 05	saure Beizlösungen	pickling acids
11 01 06	Säuren a.n.g.	acids not otherwise specified
11 01 07	alkalische Beizlösungen	pickling bases
11 01 08	Phosphatierschlämme	phosphatising sludges
11 01 09	Schlämme und Filterkuchen, die gefährliche Stoffe enthalten	sludges and filter cakes containing dangerous substances
11 01 11	wässrige Spülflüssigkeiten, die gefährliche Stoffe enthalten	aqueous rinsing liquids containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
11 01 13	Abfälle aus der Entfettung, die gefährliche Stoffe enthalten	degreasing wastes containing dangerous substances
11 01 15	Eluate und Schlämme aus Membransystemen oder Ionenaustauschsystemen, die gefährliche Stoffe enthalten	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 01 16	gesättigte oder verbrauchte Ionenaustauscherharze	saturated or spent ion exchange resins
11 01 98	andere Abfälle, die gefährliche Stoffe enthalten	other wastes containing dangerous substances
11 02	Abfälle aus Prozessen der Nichteisen-Hydrometallurgie	wastes from non-ferrous hydrometallurgical processes
11 02 02	Schlämme aus der Zink-Hydrometallurgie (einschließlich Jorosit, Goethit)	sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 05	Abfälle aus Prozessen der Kupfer-Hydrometallurgie, die gefährliche Stoffe enthalten	wastes from copper hydrometallurgical processes containing dangerous substances
11 02 07	andere Abfälle, die gefährliche Stoffe enthalten	other wastes containing dangerous substances
11 03	Schlämme und Feststoffe aus Härteprozessen	sludges and solids from tempering processes
11 03 01	cyanidhaltige Abfälle	wastes containing cyanide
11 03 02	andere Abfälle	other wastes
11 05	Abfälle aus Prozessen der thermischen Verzinkung	wastes from hot galvanizing processes
11 05 03	fest Abfälle aus der Abgasbehandlung	solid wastes from gas treatment
11 05 04	gebrauchte Flussmittel	spent flux
12	ABFÄLLE AUS PROZESSEN DER MECHANISCHEN FORMGEBUNG SOWIE DER PHYSIKALISCHEN UND MECHANISCHEN OBERFLÄCHENBEARBEITUNG VOM METALLEN UND KUNSTSTOFFEN	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	Abfälle aus Prozessen der mechanischen Formgebung sowie der physikalischen und mechanischen Oberflächenbearbeitung vom	wastes from shaping and physical and mechanical surface treatment of metals and plastics

EWG	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
	Metallen und Kunststoffen	
12 01 06	halogenhaltige Bearbeitungsöle auf Mineralölbasis (außer Emulsionen und Lösungen)	mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07	halogenfreie Bearbeitungsöle auf Mineralölbasis (außer Emulsionen und Lösungen)	mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 08	halogenhaltige Bearbeitungsemulsionen und -lösungen	machining emulsions and solutions containing halogens
12 01 09	halogenfreie Bearbeitungsemulsionen und -lösungen	machining emulsions and solutions free of halogens
12 01 10	synthetische Bearbeitungsöle Abfall-Abfallbezeichnung schlüssel	synthetic machining oils
12 01 12	gebrauchte Wachse und Fette	spent waxes and fats
12 01 14	Bearbeitungsschlamm, die gefährliche Stoffe enthalten	machining sludges containing dangerous substances
12 01 16	Strahlmittelabfälle, die gefährliche Stoffe enthalten	waste blasting material containing dangerous substances
12 01 18	ölhaltige Metallschlämme (Schleif-, Hon- und Läppschlämme)	metal sludge (grining, honing, and lapping sludge) containing oil
12 01 19	biologische leicht abbaubare Bearbeitungsöle	readily biodegradable machining oil
12 01 20	gebrauchte Hon- und Schleifmittel, die gefährliche Stoffe enthalten	spent grinding bodies and grinding materials containing dangerous substances
12 03	Abfälle aus der Wasser- und Dampfenfettung (außer 110)	wastes from water and steam degreasing processes (except 11)
12 03 01	wässrige Waschflüssigkeiten	aqueous washing liquids
12 03 02	Abfälle aus der Dampfenfettung	steam degreasing wastes
13	ÖLABFÄLLE UND ABFÄLLE AUS FLÜSSIGEN BRENNSTOFFEN (AUßER SPEISEÖLE UND ÖLABFÄLLE, DIE UNTER 05, 12 UND 19 FALLEN)	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)
13 01	Abfälle von Hydraulikölen	waste hydraulic oils

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
13 01 01	Hydrauliköle, die PCB 1) enthalten	hydraulic oils, containing PCBs ⁽¹⁾
13 01 04	chlorierte Emulsionen	chlorinated emulsions
13 01 05	nichtchlorierte Emulsionen	non-chlorinated emulsions
13 01 09	chlorierte hydrauliköle auf mineralölbasis	mineral-based chlorinated hydraulic oils
13 01 10	nichtchlorierte Hydrauliköle auf Mineralölbasis	mineral-based non-chlorinated hydraulic oils
13 01 11	Synthetische Hydrauliköle	synthetic hydraulic oils
13 01 12	Biologisch leicht abbaubare Hydrauliköle	readily biodegradable hydraulic oils
13 01 13	Andere Hydrauliköle	other hydraulic oils
13 02	Abfälle von Maschinen-, Getriebe- und Schmierölen	waste engine, gear and lubricating oils
13 02 04	Chlorierte Maschinen-, Getriebe- und Schmieröle auf Mineralölbasis	mineral-based chlorinated engine, gear and lubricating oils
13 02 05	nichtchlorierte Maschinen-, Getriebe- und Schmieröle auf Mineralölbasis	mineral-based non-chlorinated engine, gear and lubricating oils
13 02 06	synthetische Maschinen-, Getriebe- und Schmieröle	synthetic engine, gear and lubricating oils
13 02 07	biologisch leicht abbaubare Maschinen-, Getriebe- und Schmieröle	readily biodegradable engine, gear and lubricating oils
13 02 08	andere Maschinen-, Getriebe- und Schmieröle	other engine, gear and lubricating oils
13 03	Abfälle von Isolier- und Wärmeübertragungsölen	waste insulating and heat transmission oils
13 03 01	Isolier- und Wärmeübertragungsöle, die PCB enthalten	insulating or heat transmission oils containing PCBs
13 03 06	chlorierte Isolier- und Wärmeübertragungsöle auf Mineralölbasis mit Ausnahme derjenigen, die unter 13 03 01 fallen	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 03 07	nichtchlorierte Isolier- und Wärmeübertragungsöle auf Mineralölbasis	mineral-based non-chlorinated insulating and heat transmission oils
13 03 08	synthetische isolier- und Wärmeübertragungsöle	synthetic insulating and heat transmission oils

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
13 03 09	biologisch leicht abbaubare Isolier- und Wärmeübertragungsöle	readily biodegradable insulating and heat transmission oils
13 03 10	andere Isolier- und Wärmeübertragungsöle	other insulating and heat transmission oils
13 04	Bilgenöle	bilge oils
13 04 01	Bilgenöle aus der Binnenschifffahrt	bilge oils from inland navigation
13 04 02	Bilgenöle aus Molenablaufkanälen	bilge oils from jetty sewers
13 04 03	Bilgenöle aus der übrigen Schifffahrt	bilge oils from other navigation
13 05	Inhalte von Öl-/Wasserabscheidern	oil/water separator contents
13 05 01	Feste Abfälle aus Sandfanganglagen und Öl-/Wasserabscheidern	solids from grit chambers and oil/water separators
13 05 02	Schlämme aus Öl-/Wasserabscheidern	sludges from oil/water separators
13 05 03	Schlämme aus Einlaufschächten	interceptor sludges
13 05 06	Öle aus Öl-/ Wasserabscheidern	oil from oil/water separators
13 05 07	Öliges Wasser aus Öl-/Wasserabscheidern	oily water from oil/water separators
13 05 08	Abfallgemische aus Sandfanganlagen und Öl-/Wasserabscheidern	mixtures of wastes from grit chambers and oil/water separators
13 07	Abfälle aus flüssigen Brennstoffen	wastes of liquid fuels
13 07 01	Heizöl und Diesel	fuel oil and diesel
13 07 02	Benzin	petrol
13 07 03	Andere Brennstoffe (einschließlich Gemische)	other fuels (including mixtures)
13 08	Ölabfälle a. n. g.	oil wastes not otherwise specified
13 08 01	Schlämme oder Emulsionen aus Entsalzern	desalter sludges or emulsions

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
13 08 02	Andere Emulsionen	other emulsions
13 08 99	Abfälle a. n. g.	wastes not otherwise specified
14	ABFÄLLE AUS ORGANISCHEN LÖSEMITTELN, KÜHLMITTELN UND TREIBGASEN (AUßER 07 UND 08)	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08)
14 06	Abfälle aus organischen Lösemitteln, Kühlmitteln sowie Schaum - und Aerosoltreibgasen	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 01	Fluorchlorkohlenwasserstoffe, H-FCKW, H-FKW	chlorofluorocarbons, HCFC, HFC
14 06 02	Andere halogenierte Lösemittel und Lösemittelgemische	other halogenated solvents and solvent mixtures
14 06 03	Andere Lösemittel und Lösemittelgemische	other solvents and solvent mixtures
14 06 04	Schlämme oder feste Abfälle, die halogenierte Lösemittel enthalten	sludges or solid wastes containing halogenated solvents
14 06 05	Schlämme oder feste Abfälle, die andere Lösemittel enthalten	sludges or solid wastes containing other solvents
15	VERPACKUNGSABFALL, AUFSAUGMASSEN, WISCHTÜCHER, FILTERMATERIALIEN UND SCHUTZKLEIDUNG (A. N. G.)	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	Verpackungen (einschließlich getrennt gesammelter kommunaler Verpackungsabfälle)	packaging (including separately collected municipal packaging waste)
15 01 10	Verpackungen, die Rückstände gefährlicher Stoffe enthalten oder durch gefährliche Stoffe verunreinigt sind	packaging containing residues of or contaminated by dangerous substances
15 01 11	Verpackungen aus Metall, die eine gefährliche feste poröse Matrix (z.B. Asbest) enthalten, einschließlich geleerter Druckbehältnisse	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
15 02	Aufsaug- und Filtermaterialien, Wischtücher und Schutzkleidung	absorbents, filter materials, wiping cloths and protective clothing
15 02 02	Aufsaug- und Filtermaterialien (einschließlich, Ölfilter a. n. g.), Wischtücher und Schutzkleidung, die durch gefährliche Stoffe verunreinigt sind	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

EWG	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
16	ABFÄLLE, DIE NICHT ANDERSWO IM VERZEICHNIS AUFGEFÜHRT SIND	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	Altfahrzeuge verschiedener Verkehrsträger (einschließlich mobiler Maschinen) und Abfälle aus der Demontage von Altfahrzeugen sowie der Fahrzeugwartung (außer 13, 14, 16 06 und 16 08)	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 04	Altfahrzeuge	end-of-life vehicles
16 01 07	Ölfilter	oil filters
16 01 08	Quecksilberhaltige Bestandteile	components containing mercury
16 01 09	Bestandteile, die PCB enthalten	components containing PCBs
16 01 10	Explosive Bauteile (z.B. aus Airbags)	explosive components (for example air bags)
16 01 11	Asbesthaltige Bremsbeläge	brake pads containing asbestos
16 01 13	Bremsflüssigkeiten	brake fluids
16 01 14	Frostschutzmittel, die gefährliche Stoffe enthalten	antifreeze fluids containing dangerous substances
16 01 21	Gefährliche Bauteile mit Ausnahme derjenigen, die unter 16 01 07 bis 16 01 11, 16 01 13 und 16 01 14 fallen	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
16 02	Afälle aus elektrischen und elektronischen Geräten	wastes from electrical and electronic equipment
16 02 09	Transformatoren und Kondensatoren, die PCB enthalten	transformers and capacitors containing PCBs
16 02 10	Gebrauchte Geräte, die PCB enthalten oder damit verunreinigt sind, mit Ausnahme derjenigen, die unter 16 02 09 fallen	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11	Gebrauchte Geräte, die teil-und vollhalogenierte Fluorchlorkohlenwasserstoffe enthalten	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 12	Gebrauchte Geräte, die freies Asbest enthalten	discarded equipment containing free asbestos

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
16 02 13	Gefährliche Bestandteile 2) enthaltende gebrauchte Geräte mit Ausnahme derjenigen, die unter 16 02 09 bis 16 02 12 fallen	discarded equipment containing hazardous components (2) other than those mentioned in 16 02 09 to 16 02 12
16 02 15	Aus gebrauchten Geräten entfernte gefährliche Bestandteile	hazardous components removed from discarded equipment
16 03	Fehlcharge und ungebrauchte Erzeugnisse	off-specification batches and unused products
16 03 03	Anorganische Abfälle, die gefährliche Stoffe enthalten	inorganic wastes containing dangerous substances
16 03 05	Organische Abfälle, die gefährliche Stoffe enthalten	organic wastes containing dangerous substances
16 04	Explosivabfälle	waste explosives
16 04 01	Munition	waste ammunition
16 04 02	Feuerwerkskörperabfälle	fireworks wastes
16 04 03	Andere Explosivabfälle	other waste explosives
16 05	Gase in Druckbehältern und gebrauchte Chemikalien	gases in pressure containers and discarded chemicals
16 05 04	Gefährliche Stoffe enthaltende Gase in Druckbehältern (einschließlich Halonen)	gases in pressure containers (including halons) containing dangerous substances
16 05 06	Laborchemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten, einschließlich Gemische von Laborchemikalien	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 07	Gebrauchte anorganische Chemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten	discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08	Gebrauchte organische Chemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten	discarded organic chemicals consisting of or containing dangerous substances
16 06	Batterien und Akkumulatoren	batteries and accumulators
16 06 01	Bleibatterien	lead batteries
16 06 02	Ni-Cd-Batterien	Ni-Cd batteries

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
16 06 03	Quecksilber enthaltende Batterien	mercury-containing batteries
16 06 06	Getrennt gesammelte Elektrolyte aus Batterien und Akkumulatoren	separately collected electrolyte from batteries and accumulators
16 07	Abfälle aus der Reinigung von Transport-und Lagertanks und Fässern (außer 05 und 13)	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 08	ölhaltige Abfälle	wastes containing oil
16 07 09	Abfälle, die sonstige gefährliche Stoffe enthalten	wastes containing other dangerous substances
16 08	Gebrauchte Katalysatoren	spent catalysts
16 08 02	gebrauchte Katalysatoren, die gefährliche Übergangsmetalle 3) oder deren Verbindungen enthalten	spent catalysts containing dangerous transition metals (3) or dangerous transition metal compounds
16 08 05	gebrauchte Katalysatoren, die Phosphorsäure enthalten	spent catalysts containing phosphoric acid
16 08 06	gebrauchte Flüssigkeiten, die als Katalysatoren verwendet wurden	spent liquids used as catalysts
16 08 07	gebrauchte Katalysatoren, die durch gefährliche Stoffe verunreinigt sind	spent catalysts contaminated with dangerous substances
16 09	Oxidierende Stoffe	oxidizing substances
16 09 01	Permanganate, z.B. Kaliumpermanganat	permanganates, for example potassium permanganate
16 09 02	Chromate, z.B. Kaliumchromat, Kalium- oder Natriumdichromat	chromates, for example potassium chromate, potassium or sodium dichromate
16 09 03	Peroxide, z.B. Wasserstoffperoxid	peroxides, for example hydrogen peroxide
16 09 04	oxidierende Stoffe a. n. g.	oxidizing substances, not otherwise specified
16 10	Wässrige flüssige Abfälle zur externen Behandlung	aqueous liquid wastes destined for off-site treatment
16 10 01	wässrige flüssige Abfälle, die gefährliche Stoffe enthalten	aqueous liquid wastes containing dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
16 10 03	wässrige konzentrate, die gefährliche Stoffe enthalten	aqueous concentrates containing dangerous substances
16 11	Gebrauchte Auskleidungen und feuerfeste Materialien	waste linings and refractories
16 11 01	Auskleidungen und feuerfeste Materialien auf Kohlenstoffbasis aus metallurgischen Prozessen, die gefährliche Stoffe enthalten	carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 03	Andere Auskleidungen und feuerfeste Materialien aus metallurgischen Prozessen, die gefährliche Stoffe enthalten	other linings and refractories from metallurgical processes containing dangerous substances
16 11 05	Auskleidungen und feuerfeste Materialien aus nichtmetallurgischen Prozessen, die gefährliche Stoffe enthalten	linings and refractories from non-metallurgical processes containing dangerous substances
17	BAU- UND ABBRUCHABFÄLLE (EINSCHLIESSLICH AUSHUB VON VERUNREINIGTEN STANDORTEN)	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	Beton, Ziegel, Fliesen, and Keramik	concrete, bricks, tiles and ceramics
17 01 06	Gemische aus oder getrennte Fraktionen von Beton, Ziegel, Fliesen, and Keramik, die gefährliche Stoffe enthalten	mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
17 02	Holz, Glas, und Kunststoff	wood, glass and plastic
17 02 04	Glas, Kunststoff und Holz die gefährliche Stoffe enthalten oder durch gefährliche Stoffe verunreinigt sind	glass, plastic and wood containing or contaminated with dangerous substances
17 03	Bitumengemische, Kohlenteer und teerhaltige Produkte	bituminous mixtures, coal tar and tarred products
17 03 01	kohlenteerhaltige Bitumengemische	bituminous mixtures containing coal tar
17 03 03	Kohlenteer und teerhaltige Produkte	coal tar and tarred products
17 04	Metalle (einschließlich Legierungen)	metals (including their alloys)
17 04 09	Metallabfälle, die durch gefährliche Stoffe verunreinigt sind	metal waste contaminated with dangerous substances
17 04 10	Kabel, die Öl, kohlenteer oder andere gefährliche Stoffe enthalten	cables containing oil, coal tar and other dangerous substances

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
17 05	Boden (einschließlich Aushub von verunreinigten Standorten), Steine und Baggergut	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03	Boden und Steine, die gefährliche Stoffe enthalten	soil and stones containing dangerous substances
17 05 05	Baggergut, das gefährliche Stoffe enthält	dredging spoil containing dangerous substances
17 05 07	Gleisschotter, das gefährliche Stoffe enthält	track ballast containing dangerous substances
17 06	Dämmaterial und asbesthaltige Baustoffe	insulation materials and asbestos -containing construction materials
17 06 01	Dämmaterial, das Asbest enthält	insulation materials containing asbestos
17 06 03	anderes Dämmaterial, das aus gefährlichen Stoffen besteht oder solche Stoffe enthält	other insulation materials consisting of or containing dangerous substances
17 06 05	asbesthaltige Baustoffe	construction materials containing asbestos
17 08	Baustoffe auf Gipsbasis	gypsum -based construction materials
17 08 01	Baustoffe auf Gipsbasis, die durch gefährliche Stoffe verunreinigt sind	gypsum -based construction materials contaminated with dangerous substances
17 09	Sonstige Bau- und Abbruchabfälle	other construction and demolition wastes
17 09 01	Bau- und Abbruchabfälle, die Quecksilber enthalten	construction and demolition wastes containing mercury
17 09 02	Bau- und Abbruchabfälle, die PCB enthalten (z. B. PCB-haltige Dichtungsmassen, PCB-haltige Bodenbeläge auf Harzbasis, PCB-haltige Isolierverglasungen, PCG-haltige Kondensatoren)	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	sonstige Bau- und Abbruchabfälle (einschließlich gemischte Abfälle), die gefährliche Stoffe enthalten	other construction and demolition wastes (including mixed wastes) containing dangerous substances
18	ABFÄLLE AUS DER HUMANMEDIZINISCHEN ODER TIERÄRZTLICHEN VERSORGUNG UND FORSCHUNG (OHNE KÜCHEN- UND RESTAURANTABFÄLLE, DIE NICHT AUS DER UNMITTELBAREN KRANKENPFLEGE STAMMEN)	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
18 01	Abfälle aus der Geburtshilfe, Diagnose, Behandlung oder Vorbeugung von Krankheiten beim Menschen	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 03	Abfälle, an deren Sammlung und Entsorgung aus infektionspräventiver Sicht besondere Anforderungen gestellt werden	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 01 06	Chemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten	chemicals consisting of or containing dangerous substances
18 01 08	zytotoxische and zytostatische Arzneimittel	cytotoxic and cytostatic medicines
18 01 10	Amalgamabfälle aus der Zahnmedizin	amalgam waste from dental care
18 02	Abfälle aus der Geburtshilfe, Diagnose, Behandlung oder Vorbeugung von Krankheiten bei Tieren	wastes from research, diagnosis, treatment, or prevention of disease involving animals
18 02 02	Abfälle, an deren Sammlung und Entsorgung aus infektionspräventiver Sicht besondere Anforderungen gestellt werden	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 02 05	Chemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten	chemicals consisting of or containing dangerous substances
18 02 07	zytotoxische and zytostatische Arzneimittel	cytotoxic and cytostatic medicines
19	ABFÄLLE AUS ABFALLBEHANDLUNGSANLAGEN, ÖFFENTLICHEN ABWASSERBEHANDLUNGSANLAGEN SOWIE DER AUFBEREITUNG VON WASSER FÜR DEN MENSCHLICHEN GEBRAUCH UND WASSER FÜR INDUSTRIELLE ZWECKE	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	Abfälle aus der Verbrennung oder Pyrolyse von Abfällen	wastes from incineration or pyrolysis of waste
19 01 05	Filterkuchen aus der Abgasbehandlung	filter cake from gas treatment
19 01 06	wässrige flüssige Abfälle aus der Abgasbehandlung und andere wässrige flüssige Abfälle	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 01 07	feste Abfälle aus der Abgasbehandlung	solid wastes from gas treatment

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
19 01 10	gebrauchte Aktivkohle aus der Abgasbehandlung	spent activated carbon from flue-gas treatment
19 01 11	Rost- und Kesselaschen sowie Schlacken, die gefährliche Stoffe enthalten	bottom ash and slag containing dangerous substances
19 01 13	Filterstaub, der gefährliche Stoffe enthält	fly ash containing dangerous substances
19 01 15	Kesselstaub, der gefährliche Stoffe enthält	boiler dust containing dangerous substances
19 01 17	Pyrolyseabfälle, die gefährliche Stoffe enthalten	pyrolysis wastes containing dangerous substances
19 02	Abfälle aus der physikalisch-chemischen Behandlung von Abfällen (einschließlich Dechromatisierung, Cyanidentfernung, Neutralisation)	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 04	vorgemischte Abfälle, die wenigstens einen gefährlichen Abfall enthalten	premixed wastes composed of at least one hazardous waste
19 02 05	Schlämme aus der physikalisch-chemischen Behandlung, die gefährliche Stoffe enthalten	sludges from physico/chemical treatment containing dangerous substances
19 02 07	Öl und Konservate aus Abtrennprozessen	oil and concentrates from separation
19 02 08	flüssige brennbare Abfälle, die gefährliche Stoffe enthalten	liquid combustible wastes containing dangerous substances
19 02 09	feste brennbare Abfälle, die gefährliche Stoffe enthalten	solid combustible wastes containing dangerous substances
19 02 11	sonstige Abfälle, die gefährliche Stoffe enthalten	other wastes containing dangerous substances
19 03	Stabilisierte und verfestigte Abfälle (⁴)	stabilized/solidified wastes (⁴)
19 03 04	als gefährliche eingestufte teilweise stabilisierte (⁵) Abfälle	wastes marked as hazardous, partly (⁵) stabilized
19 03 06	als gefährlich eingestufte verfestigte Abfälle	wastes marked as hazardous, stabilized
19 04	Verglaste Abfälle und Abfälle aus der Verglasung	vitrified waste and wastes from vitrification
19 04 02	Filterstaub und andere Abfälle aus der Abgasbehandlung	fly ash and other flue-gas treatment wastes

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
19 04 03	nicht verglaste Festphase	non-vitrified solid phase
19 07	Deponiesickerwasser	landfill leachate
19 07 02	Deponiesickerwasser, die gefährliche Stoffe enthalten	landfill leachate containing dangerous substances
19 08	Abfälle aus Abwasserbehandlungsanlagen a. n. g.	wastes from waste water treatment plants not otherwise specified
19 08 06	gesättigte oder verbrauchte Ionenaustauscherharze	saturated or spent ion exchange resins
19 08 07	Lösungen und Schlämme aus der Regeneration von Ionenaustauschern	solutions and sludges from regeneration of ion exchangers
19 08 08	schwermetallhaltige Abfälle aus Membransystemen	membrane system waste containing heavy metals
19 08 09	Fett- und Ölmischungen aus Ölabscheidern, die ausschließlich Speisöle und –fette enthalten	grease and oil mixture from oil/water separation containing edible oil and fats
19 08 10	Fett- und Ölmischungen aus Ölabscheidern mit Ausnahme derjenigen die unter 19 08 09 fallen	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
19 08 11	Schlämme aus der biologischen Behandlung von industriellem Abwasser, die gefährliche Stoffe enthalten	sludges containing dangerous substances from biological treatment of industrial waste water
19 08 13	Schlämme, die gefährliche Stoffe aus einer anderen Behandlung Behandlung von industriellem Abwasser enthalten	sludges containing dangerous substances from other treatment of industrial waste water
19 10	Abfälle a. n. g.	wastes from shredding of metal-containing wastes
19 10 03	Schredderleichtfraktionen und Staub, die gefährliche Stoffe enthalten	fluff-light fraction and dust containing dangerous substances
19 10 05	andere Fraktionen, die gefährliche Stoffe enthalten	other fractions containing dangerous substances
19 11	Abfälle aus der Altölaufbereitung	wastes from oil regeneration
19 11 01	gebrauchte Filtertöne	spent filter clays
19 11 02	Säureteere	acid tars

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
19 11 03	wässrige flüssige Abfälle	aqueous liquid wastes
19 11 04	Abfälle aus der Brennstoffreinigung mit Basen	wastes from cleaning of fuel with bases
19 1 05	Schlämme aus der betriebseigenen Abwasserbehandlung, die gefährliche Stoffe enthalten	sludges from on-site effluent treatment containing dangerous substances
19 11 07	Abfälle aus der Abgasreinigung	wastes from flue-gas cleaning
19 12	Abfälle aus der mechanischen Behandlung von Abfällen (z.B. Sortieren, Zerkleinern, Verdichten, Pelletieren) a. n. g.	wastes from the mechanical treatment of waste (for example, sorting, crushing, compacting, pelletising) not otherwise specified
19 12 06	Holz, das die gefährliche Stoffe enthält	wood containing dangerous substances
19 12 11	sonstige Abfälle (einschließlich Materialmischungen) aus der mechanischen Behandlung von Abfällen, die gefährliche Stoffe enthalten	others wastes (including mixtures of materials) from mechanical treatment of wastes containing dangerous substances
19 13	Abfälle aus der Sanierung von Böden und Grundwasser	wastes from soil and groundwater remediation
19 13 01	feste Abfälle aus der Sanierung von Böden, die gefährliche Stoffe enthalten	solid wastes from soil remediation containing dangerous substances
19 03 03	Schlämme aus der Sanierung von Böden, die gefährliche Stoffe enthalten	sludges from soil remediation containing dangerous substances
19 03 05	Schlämme aus der Sanierung von Grundwasser, die gefährliche Stoffe enthalten	sludges from groundwater remediation containing dangerous substances
19 03 07	wässrige flüssige Abfälle und wässrige Konzentrate aus der Sanierung von Böden, die gefährliche Stoffe enthalten	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances
20	SIEDLUNGSABFÄLLE (HAUSHALTSABFÄLLE UND ÄNLICHE GEWERBLICHE UND INDUSTRIELLE ABFÄLLE SOWIE ÄBFALLE AUS ENRICHUNGEN), EINSCHLIEßLICH GETRENNNT GESAMMELTER FRAKTIONEN	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Getrennt gesammelte Fraktionen (außer 15 01)	separately collected fractions (except 15 01)

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
20 01 13	Lösemittel	solvents
20 01 14	Säuren	acids
20 01 15	Laugen	alkalines
20 01 17	Fotochemikalien	photochemicals
20 01 19	Pestizide	pesticides
20 01 21	Leuchtstoffröhren und andere quecksilberhaltige Abfälle	fluorescent tubes and other mercury-containing wastes
20 01 23	gebrauchte Geräte, die Fluorchlorkohlenwasserstoffe enthalten	discarded equipment containing chlorofluorocarbons
20 01 26	Öle und Fette mit Ausnahme derjenigen, die unter 20 01 25 fallen	oil and fat other than those mentioned in 20 01 25
20 01 27	Farben, Druckfarben, Klebstoffe und Kunstharze, die gefährliche Stoffe enthalten	paint, inks, adhesives and resins containing dangerous substances
20 01 29	Reinigungsmittel, die gefährliche Stoffe enthalten	detergents containing dangerous substances
20 01 31	zytotoxische und zytostatische Arzneimittel	cytotoxic and cytostatic medicines
20 01 33	Batterien und Akkumulatoren, die unter 16 06 01, 16 06 02, oder 16 06 03 fallen, sowie gemischte Batterien und Akkumulatoren, die solche Batterien enthalten	batteries and accumulators included in 16 06 01, 16 06 02, or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 35	gebrauchte elektrische und elektronische Geräte, die gefährliche Bauteile (¹) enthalten, mit Ausnahme derjenigen, die unter 20 01 21 und 20 01 23 fallen	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (¹)
20 01 37	Holz, das gefährliche Stoffe enthält	wood containing dangerous substances
NOTES:	(¹) For the purposes of this list of wastes, PCBs will be defined in Chapter 14.	
	(²) 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.	

EWC	ABFALLBEZEICHNUNG	ENGLISH WASTE DESCRIPTION
	(³) For the purpose of this entry, transition metals are: scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel zinc, zirconium, molybdenum, and tantalum. These metals or their compounds are dangerous if they are classified as dangerous substances. The classification of dangerous substances shall determine which among those transition metals and which transition metal compounds are hazardous.	
	(⁴) 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.	
	(⁵) A waste is considered as partly stabilised if, after the stabilisation process, dangerous constituents which have not been changed completely into non-dangerous constituents could be released into the environment in the short, middle, or long term.	
	(⁶) 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.	