



Brussels, 5.3.2025  
C(2025) 1360 final

**COMMISSION DELEGATED DECISION (EU) .../...**

**of 5.3.2025**

**amending Decision 2000/532/EC as regards an update of the list of waste in relation to  
battery-related waste**

(Text with EEA relevance)

## EXPLANATORY MEMORANDUM

### 1. CONTEXT OF THE DELEGATED ACT

Batteries are one of the key enablers for sustainable development, green mobility, clean energy and climate neutrality. The Regulation on Batteries and Waste Batteries<sup>1</sup> (“the Regulation”) introduces a harmonised regulatory framework for dealing with the entire life cycle of batteries placed on the EU market. To help manage waste, the European list of waste<sup>2</sup>, as last amended<sup>3</sup> in the 2014, provides common terminology for classifying waste across the EU, including hazardous waste.

Pursuant to recital 116 of the Regulation the Commission should revise this list to take account of new battery chemistries and rapidly evolving manufacturing and recycling processes. The objective is to improve the identification, monitoring and traceability of the different waste streams and provide certainty about their status as hazardous / non-hazardous waste, in order to enable proper sorting and reporting of such waste batteries. Similarly, the communication on Critical Raw Materials<sup>4</sup> envisages a targeted amendment of the list of waste in 2024 to take account of the emergence of new battery chemistries (in particular lithium-based and nickel-based batteries), evolving manufacturing and recycling processes, and proper sorting, recycling and reporting of waste batteries in the context of the new Batteries Regulation. The amendment also aims at increasing protection of environment and human health by ensuring proper management of battery-related waste. More broadly, this should also be seen in the context of a recycling value chain that works well, supporting the application of rules on recycling efficiencies for waste batteries and on recycled content in new batteries.

Among the new codes, new hazardous waste codes have been introduced to identify intermediate fractions from battery waste treatment, commonly referred to as “black masses”. Classification as hazardous for such waste is supported by up-to-date information on composition and classification of components according to the to the Classification, Labelling and Packaging (CLP) Regulation<sup>5</sup>, which implement the Globally Harmonised System in the EU.

The classification of battery-related waste streams impacts the extent to which they are subject to applicable waste shipment rules in accordance with the Waste Shipment Regulation. Such rules have been established with the objective of protecting the environment and human health.

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<sup>1</sup> Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC (OJ L 191, 28.7.2023, p. 1.).

<sup>2</sup> Commission Decision 2000/532/EC of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (OJ L 226, 6.9.2000, p. 3.).

<sup>3</sup> Commission Decision 2014/955/EU of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council (OJ L 370, 30.12.2014, p. 44).

<sup>4</sup> COM (2023) 165 final, Communication on a secure and sustainable supply of critical raw materials in support of the twin transitions.

<sup>5</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Besides the introduction of waste codes for new battery-related wastes in the list of waste, the amendment replaces the current non-hazardous waste code for alkaline batteries with a new waste code according to which all alkaline batteries are classified as hazardous waste. The classification of alkaline batteries, originally based on an assessment made in the early 1990s, has been adapted to technical and scientific progress by taking into account the concentration of relevant substances in batteries and their hazardous classification according to the CLP Regulation.

Waste lithium-based batteries give rise to specific challenges for transport and treatment due to explosion and fire hazards, in particular in municipal waste. To contribute to the safe and effective management of waste lithium-based batteries, a new specific hazardous waste code for lithium-based batteries is introduced in sub-chapter 20 01 of the waste list, covering separately collected fractions of municipal waste. This code should be used in cases where separate collection of waste lithium-based batteries is implemented, as an alternative to the hazardous waste code applicable to sorted and unsorted hazardous waste batteries of municipal origin.

## **2. CONSULTATIONS PRIOR TO THE ADOPTION OF THE ACT**

This is a technical act and it did not need to be supported by an impact assessment or open public consultation, in particular given the technical nature of the measure and the unambiguous hazard classification of waste. The latter results from the application of established rules for the classification of chemicals and waste. More specifically, the proposed classification of waste as hazardous or non-hazardous is based on up-to-date information about composition and classification of components according to the EU classification rules provided in the CLP Regulation and in Annex III of Directive 2008/98/EC<sup>6</sup> (Waste Framework Directive).

The delegated act draws on a report of the Joint Research Centre (JRC) of the Commission<sup>7</sup> prepared with the input of stakeholders, including a consultation of the expert group on waste on 31 March 2023, a workshop on 21 November 2023 and a dedicated stakeholder consultation. The delegated act was then discussed in the expert group on waste, in its formation including Member State representatives, businesses and civil society on 8 May 2024 and written comments were received by 8 June 2024. Member States were informed how their comments were taken into account in the meeting of the Committee for the adaptation to scientific and technical progress and implementation of the Directives on Waste established under Article 39 of the Waste Framework Directive on 20 September 2024.

The draft delegated act was published for public feedback on the Better Regulation Portal from 11 October to 8 November 2024. It was notified to the World Trade Organization Committee on Technical Barriers to Trade on 15 October 2024.

## **3. LEGAL ELEMENTS OF THE DELEGATED ACT**

The delegated act is adopted pursuant to Article 7(1) of the Waste Framework Directive which empowers the Commission to adopt delegated acts in accordance with Article 38a of

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<sup>6</sup> Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008, p. 3).

<sup>7</sup> JRC report: Technical recommendations for the targeted amendment of the European List of Waste entries relevant to batteries, 2024

the Directive in order to supplement it by reviewing the list of waste established under the Directive.

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THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives<sup>8</sup>, and in particular Article 7(1) thereof,

Whereas:

- (1) A list of waste was established by Commission Decision 94/3/EC, followed by a list of hazardous waste established by Council Decision 94/904/EC. Those Decisions were replaced by Commission Decision 2000/532/EC<sup>9</sup>.
- (2) New battery chemistries, in particular as regards lithium-based, sodium-based and nickel-based batteries, have emerged during the past years and manufacturing and recycling processes for batteries have evolved. That evolution has been taken into account in the context of Regulation (EU) 2023/1542 of the European Parliament and of the Council<sup>10</sup> and should be reflected in the list of waste.
- (3) Regulation (EU) 2023/1542 furthermore introduces new and modified terminology, applicable to battery-related waste (that is to say battery manufacturing waste, waste batteries and fractions thereof), which consequently should also be reflected in the list of waste.
- (4) Therefore, it is necessary to update the list of waste set out in Decision 2000/532/EC to take into account new battery chemistries and battery-related waste management, the evolving battery market and to improve the identification and classification of relevant waste streams as well as to support improved sorting, recycling and reporting of battery-related waste.
- (5) The classification of specific waste streams as hazardous waste, relying on up to date evidence-based information on composition and hazard classification of constituent

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<sup>8</sup> OJ L 312, 22.11.2008, p.3, ELI: <http://data.europa.eu/eli/dir/2008/98/oj>.

<sup>9</sup> Commission Decision 2000/532/EC of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (OJ L 226, 6.9.2000, p. 3, ELI: <http://data.europa.eu/eli/dec/2000/532/oj>).

<sup>10</sup> Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC (OJ L 191, 28.7.2023, p. 1, ELI: <http://data.europa.eu/eli/reg/2023/1542/oj>).

substances, is essential to ensure that waste management is carried out without endangering human health and without harming the environment. Hazardous waste entries included in the list of waste should be classified taking into account the origin and composition of the waste, as well as the applicable concentration limit values for hazardous substances, as legally defined in Annex III of Directive 2008/98/EC, for substances classified as hazardous, according to the criteria defined in Regulation (EC) No. 1272/2008 of the European Parliament and of the Council<sup>11</sup>.

- (6) The classification of alkaline batteries should be adapted to technical and scientific progress by taking into account the concentration of relevant substances in batteries and their hazardous classification in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council.
- (7) In order to contribute to the safe and effective management of waste lithium-based batteries of municipal origin, a new hazardous waste code for lithium-based batteries, which covers separately collected fractions of municipal waste, should be introduced.
- (8) Decision 2000/532/EC should therefore be amended accordingly.
- (9) In order to allow operators and authorities to adequately implement the new and modified waste codes, in particular for waste classified or re-classified as hazardous, and to make the necessary structural and operational changes in facilities managing battery-related waste, as well as to allow for the adaptation, submission and processing of waste permits, the application of this Decision should be deferred,

HAS ADOPTED THIS DECISION:

#### *Article 1*

The Annex to Decision 2000/532/EC is amended in accordance with the Annex to this Decision.

#### *Article 2*

This Decision shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

It shall apply from [*OP, please insert the date = 18 months after the date of entry into force of this Decision*].

Done at Brussels, 5.3.2025

*For the Commission*  
*The President*  
*Ursula VON DER LEYEN*

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<sup>11</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1, ELI: <http://data.europa.eu/eli/reg/2008/1272/oj>).



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ANNEX

**ANNEX**

**to the**

**Commission Delegated Decision**

**amending Decision 2000/532/EC as regards an update of the list of waste in relation to  
battery-related waste**

## ANNEX

The Annex to Commission Decision 2000/532/EC is amended as follows:

(1) entry 09 01 11\* is replaced by the following:

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09 01 11*	single-use cameras containing batteries included in 16 06 01 to 16 06 04, 16 06 07 to 16 06 11 or 16 06 14
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’;

(2) the following entries are inserted after entry 10 08 20:

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10 08 21*	slags from waste lithium-based battery recycling containing hazardous substances
10 08 22	slags from waste lithium-based battery recycling other than those mentioned in 10 08 21
10 08 23*	slags from waste nickel-based battery recycling containing hazardous substances
10 08 24	slags from waste nickel-based battery recycling other than those mentioned in 10 08 23
10 08 25*	slags from other waste battery recycling containing hazardous substances except 10 04 01, 10 08 21 and 10 08 23
10 08 26	slags from other waste battery recycling other than those mentioned in 10 08 25

’;

(3) Chapter 16 06 is replaced by the following:

‘

<b>16 06</b>	<b>wastes from the manufacture, supply and use of batteries</b>
16 06 01*	waste lead-acid batteries
16 06 02*	waste nickel-cadmium batteries
16 06 03*	waste mercury-containing batteries
16 06 04*	waste alkaline-based batteries (other than those mentioned in 16 06 03)
16 06 06*	separately collected electrolyte from waste batteries
16 06 07*	waste lithium-based batteries
16 06 08*	waste nickel-based batteries other than those mentioned in 16 06 02 (for example NiMH, Na-NiCl <sub>2</sub> )
16 06 09*	waste zinc-based batteries, including silver oxide batteries
16 06 10*	waste sodium-based batteries containing hazardous substances (except 16 06 11)
16 06 11*	waste sodium sulphur batteries
16 06 12	other waste sodium-based batteries (except 16 06 10 and 16 06 11)
16 06 13*	mixed waste batteries
16 06 14*	other waste batteries containing hazardous substances
16 06 15	waste batteries not otherwise specified other than those mentioned in 16 06 12 and 16 06 14
16 06 22*	lead-acid battery manufacturing waste containing hazardous substances (for example lead paste)
16 06 23	lead-acid battery manufacturing waste other than that mentioned in 16 06 22
16 06 24*	lithium-based battery manufacturing waste containing hazardous substances (for example cathode cut-offs, cathode slurry, off specification battery cells, modules and/or packs)



16 06 25	lithium-based battery manufacturing waste other than those mentioned in 16 06 24 (for example anode cut-offs)
16 06 26*	nickel-based battery manufacturing waste containing hazardous substances (for example liquid and solid cathode material)
16 06 27	nickel-based battery manufacturing waste other than that mentioned in 16 06 26
16 06 28*	alkaline-based battery manufacturing waste containing hazardous substances
16 06 29	alkaline-based battery manufacturing waste other than that mentioned in 16 06 28
16 06 30*	zinc-based battery manufacturing waste containing hazardous substances
16 06 31	zinc-based battery manufacturing waste other than that mentioned in 16 06 30
16 06 32*	sodium-based battery manufacturing waste containing hazardous substances
16 06 33	sodium-based battery manufacturing waste other than that mentioned in 16 06 32
16 06 34*	battery manufacturing waste containing hazardous substances other than that mentioned in 16 06 22, 16 06 24, 16 06 26, 16 06 28, 16 06 30 and 16 06 32
16 06 35	battery manufacturing waste other than that mentioned in 16 06 23, 16 06 25, 16 06 27, 16 06 29, 16 06 31 and 16 06 33

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(4) Entry 19 02 11\* is deleted:

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(5) The following entries are inserted:

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19 02 12*	solid salts and solutions containing heavy metals from battery recycling
19 02 13*	other wastes containing hazardous substances

’;

(6) the following entries are inserted after entry 19 13 08:

‘

<b>19 14</b>	<b>intermediate fractions from the thermal and/or mechanical treatment of waste batteries and of battery manufacturing waste</b>
19 14 01*	intermediate fraction from the thermal and/or mechanical treatment of waste lead-acid batteries and lead-acid battery manufacturing waste containing a mixture of electrode materials
19 14 02*	intermediate fraction from the thermal and/or mechanical treatment of waste lithium-based batteries and lithium-based battery manufacturing waste containing a mixture of electrode materials
19 14 03*	intermediate fraction from the thermal and/or mechanical treatment of waste nickel-based batteries and nickel-based battery manufacturing waste containing a mixture of electrode materials
19 14 04*	intermediate fraction from the thermal and/or mechanical treatment of waste alkaline-based batteries and alkaline-based battery manufacturing waste containing a mixture of electrode materials
19 14 05*	intermediate fraction from the thermal and/or mechanical treatment of waste zinc-based batteries and zinc-based battery manufacturing waste containing a mixture of electrode materials
19 14 06*	intermediate fraction from the thermal and/or mechanical treatment of waste sodium-based batteries and sodium-based battery manufacturing waste containing a mixture of electrode materials
19 14 07*	intermediate fraction from the thermal and/or mechanical treatment of waste batteries and battery manufacturing waste containing a mixture of electrode materials, not otherwise specified in 19 14 01 to 19 14 06
19 14 08	alloys from waste battery recycling (in massive form)

’;

(7) entries 20 01 33\* and 20 01 34 are deleted;

(8) the following entries are inserted after entry 20 01 41:

‘

20 01 42*	waste batteries included in 16 06 01 to 16 06 04, 16 06 08 to 16 06 11 or 16 06 14 and mixed waste batteries containing those waste batteries including also 16 06 07
20 01 43*	waste lithium-based batteries included in 16 06 07.
20 01 44	waste batteries other than those mentioned in 20 01 42 and 20 01 43

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