
Changes to legislation: There are outstanding changes not yet made to Commission Decision of 22 March 2005 establishing the formats relating to the database system pursuant to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste (notified under document number C(2005) 854) (Text with EEA relevance) (2005/270/EC). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

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[^{F1}ANNEX I]

Textual Amendments

- F1** Substituted by Commission Implementing Decision (EU) 2019/665 of 17 April 2019 amending Decision 2005/270/EC establishing the formats relating to the database system pursuant to European Parliament and Council Directive 94/62/EC on packaging and packaging waste (notified under document C(2019) 2805) (Text with EEA relevance).

[^{F1}TABLE 1

Reporting on the recycling targets set in Article 6 of Directive 94/62/EC

(tonnes)

Packaging waste material	Waste generation	Recycling			Repair of wooden packaging	Energy recovery ^a	Other recovery ^b
		Recycling in the Member State	Recycling in other Member States	Recycling outside the EU			
All							
Plastic							
Wood							
Metal (total)							
Ferrous metal							
Ferrous metal from IBA ^c							
Aluminium							
Aluminium from IBA ^d							
Glass							
Paper and cardboard							
Other							

a This includes incineration with energy recovery and the reprocessing of waste to be used as fuel or other means to generate energy.

b This excludes repair of wooden packaging, recycling and energy recovery and includes backfilling.

c Ferrous metals recycled after their separation from incineration bottom ash shall be reported separately and shall not be included in the row for reporting ferrous metals.

d Aluminium recycled after separation from incineration bottom ash shall be reported separately and shall not be included in the row for reporting aluminium.

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Notes:

1. Dark shaded boxes: reporting is not applicable.
2. Light shaded boxes: reporting is mandatory only to Member States that include those amounts in the recycling rates. Where Member States report on metals from incineration bottom ash (IBA) they shall complete both the boxes on recycling in and outside the Member State.

- a This includes incineration with energy recovery and the reprocessing of waste to be used as fuel or other means to generate energy.
- b This excludes repair of wooden packaging, recycling and energy recovery and includes backfilling.
- c Ferrous metals recycled after their separation from incineration bottom ash shall be reported separately and shall not be included in the row for reporting ferrous metals.
- d Aluminium recycled after separation from incineration bottom ash shall be reported separately and shall not be included in the row for reporting aluminium.

TABLE 2

Format for reporting for the purposes of adjusting the recycling rates in accordance with Article 5(2) of Directive 94/62/EC

(%)

1	2	3	4	5
Packaging waste material	Share of reusable sales packaging in all sales packaging year n-3	Share of reusable sales packaging in all sales packaging year n-2	Share of reusable sales packaging in all sales packaging year n-1	Average share of reusable sales packaging in the three years preceding year n
Plastic				
Wood				
Ferrous metal				
Aluminium				
Glass				
Paper and cardboard				
All				

Notes:

1. Light shaded boxes: Data is obligatory only for the material for which the Member State has decided to achieve an adjusted target.
2. Dark shaded boxes: the calculation of data is automatic and represents the simple average of columns 2, 3 and 4.

TABLE 3

Format for reporting on reusable packaging

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1	2	3	4	5	6	7	8	9	10	11
Packaging material	Packaging placed on the market for the first time				Reusable packaging placed on the market for first time		Rotations ^c			
	All packaging ^a		Sales packaging ^b		All reusable packaging (t)	Reusable sales packaging (t)	All reusable packaging		Reusable sales packaging	
	(t)	(units)	(t)	(units)			(t) ^d	(number)	(t) ^d	(number)
Plastic										
Wood										
Ferrous metal										
Aluminium										
Glass										
Paper and cardboard										
Other										
All										

Note: Light shaded boxes: provision of data is voluntary.

a This means all reusable and single-use packaging comprising sales, transport and grouped packaging.

b This means reusable and single-use sales packaging.

c This means the number of rotations that reusable packaging completes in a given year.

d This means the number of rotations that reusable packaging completes in a given year multiplied by their mass.]

[^{F2}TABLE 4

The annual consumption of lightweight plastic carrier bags calculated in accordance with the methodology laid down in Article 2(1)(a) of Commission Implementing Decision (EU) 2018/896⁰

Number of lightweight plastic carrier bags placed on the market

Of which bags having a wall thickness of

< 15 micron

15 < 50 micron

a Commission Implementing Decision (EU) 2018/896 of 19 June 2018 laying down the methodology for the calculation of the annual consumption of lightweight plastic carrier bags and amending Decision 2005/270/EC (OJ L 160, 25.6.2018, p. 6).

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Textual Amendments

- F2** Inserted by [Commission Implementing Decision \(EU\) 2018/896](#) of 19 June 2018 laying down the methodology for the calculation of the annual consumption of lightweight plastic carrier bags and amending Decision 2005/270/EC (notified under document C(2018) 3736) (Text with EEA relevance).

Notes:

1. White box: Provision of data is mandatory
2. Shaded boxes: Provision of data is voluntary

TABLE 5

The annual consumption of lightweight plastic carrier bags calculated in accordance with the methodology laid down in Article 2(1)(b) of Implementing Decision (EU) 2018/896

Number of lightweight plastic carrier bags calculated from mandatory taxes, charges or levies			
Number of lightweight plastic carrier bags calculated from mandatory taxes, charges or levies as declared or reported by economic operators		Number of lightweight plastic carrier bags exempt from mandatory taxes, charges or levies as reported by economic operators	
(a)		(b)	
(a) + (b)			
Of which bags having a wall thickness of			
< 15 micron	15 < 50 micron	< 15 micron	15 < 50 micron

Notes:

1. White box: Provision of data is mandatory
2. Shaded boxes: Provision of data is voluntary
3. Where no exemption is in place, the value for (b) shall be indicated as 0.

TABLE 6

The annual consumption of lightweight plastic carrier bags calculated in accordance with the methodology laid down in Article 3(1)(a) of Implementing Decision (EU) 2018/896

Weight of lightweight plastic carrier bags placed on the market			
Weight of lightweight plastic carrier bags placed on the market		Weighted average weight per lightweight plastic carrier bag as reported by economic operators	
Of which bags having a wall thickness of		Having a wall thickness of	
< 15 micron	15 < 50 micron	< 15 micron	15 < 50 micron

Notes:

1. White box: Provision of data is mandatory
2. Shaded boxes: Provision of data is voluntary

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TABLE 7

The annual consumption of lightweight plastic carrier bags calculated in accordance with the methodology laid down in Article 3(1)(b) of Implementing Decision (EU) 2018/896

Weight of lightweight plastic carrier bags calculated from mandatory taxes, charges or levies					
Weight of lightweight plastic carrier bags calculated from mandatory taxes, charges or levies as declared or reported by economic operators		Weight of lightweight plastic carrier bags exempt from mandatory taxes, charge or levies as reported by economic operators		Average weight per lightweight plastic carrier bag as reported by economic operators	
a		b			
a + b					
Of which bags having a wall thickness					
< 15 micron	15 < 50 micron	< 15 micron	15 < 50 micron	(a) 15 < 50 micron	(b) 15 < 50 micron

Notes:

1. White box: Provision of data is mandatory
2. Shaded boxes: Provision of data is voluntary
3. Where no exemption is in place, the value for (b) equals 0]

[^{F3}ANNEX II

Calculation points referred to in Article 6c(1)(a)

Textual Amendments	
F3	Inserted by Commission Implementing Decision (EU) 2019/665 of 17 April 2019 amending Decision 2005/270/EC establishing the formats relating to the database system pursuant to European Parliament and Council Directive 94/62/EC on packaging and packaging waste (notified under document C(2019) 2805) (Text with EEA relevance).
Packaging Material	Calculation Point
Glass	Sorted glass that does not undergo further processing before entering a glass furnace or the production of filtration media, abrasive materials, glass fibre insulation and construction materials.

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Metals	Sorted metal that does not undergo further processing before entering a metal smelter or furnace.
Paper / board	Sorted paper that does not undergo further processing before entering a pulping operation
Plastics	Plastic separated by polymers that does not undergo further processing before entering pelletisation, extrusion, or moulding operations; Plastic flakes that do not undergo further processing before their use in a final product.
Wood	Sorted wood that does not undergo further processing before utilisation in the manufacture of particleboard or other products. Sorted wood entering a composting operation.
Textiles	Sorted textile that does not undergo further processing before its utilisation for the production of textile fibres, rags or granulates.
Composite packaging and packaging composed of multiple materials	Plastic, glass, metal, wood, paper and cardboard and other materials resulting from the treatment of composite packaging or of packaging composed of multiple materials that do not undergo further processing before reaching the calculation point established for the specific material.

ANNEX III

Methodology for calculating the recycled metals separated after incineration of packaging waste

1. The following terms shall apply in relation to the formulas set out in this annex:

$m_{total\ IBA\ Fe/Al}$	total mass of ferrous metals or aluminium in incineration bottom ash in a given year;
$m_{IBA\ Fe/nFe}$ concentrates	mass of ferrous metal concentrate or non-ferrous metal concentrate separated from raw waste incineration bottom ash in a given year;
$C_{IBA\ Fe/Al}$	concentration of ferrous metals or aluminium in the respective metal concentrate;
$m_{IBA\ Fe/Al}$	mass of ferrous metals or aluminium in the ferrous metal concentrate or in the non-ferrous metal concentrate separated from incineration bottom ash in a given year;
$m_{non-metallic}$	mass of non-metallic material contained in specific ferrous metals concentrate or aluminium concentrate;

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r_{Al}	share of aluminium in non-ferrous metals contained in non-ferrous concentrate separated from incineration bottom ash;
$m_{PW\ Fe/Al}$	mass of ferrous metals or aluminium from packaging waste entering an incineration operation in a given year;
$m_{W\ Fe/Al}$	mass of all ferrous metals or aluminium entering an incineration operation in a given year; and
$m_{PW\ IBA\ Fe/Al}$	mass of recycled ferrous metals or aluminium originating from packaging waste in a given year.

2. Following the separation of ferrous /non-ferrous concentrate from raw incineration bottom ash, the ferrous metals/aluminium content of the metal concentrate shall be calculated by applying the following formula:

$$m_{total\ IBA\ Fe/Al} = m_{IBA\ Fe/nFe\ concentrates} \cdot c_{IBA\ Fe/Al}$$

3. Data on the mass of ferrous /non-ferrous metal concentrates shall be obtained from facilities that separate metal concentrates from raw incineration bottom ash.
4. The concentration of ferrous metals and aluminium resulting from the processing of raw incineration bottom ash shall be calculated by using data collected by regular surveys from facilities that treat metal concentrates and from facilities that use metals separated from incineration bottom ash to producing metal products by applying the following formulas:
- (a) for ferrous metals

$$c_{IBA\ Fe} = \frac{m_{IBA\ Fe}}{m_{IBA\ Fe\ concentrates}} = \frac{m_{IBA\ Fe\ concentrates} - m_{non-metallic}}{m_{IBA\ Fe\ concentrates}}$$

, and

- (b) for aluminium

$$c_{IBA\ Al} = \frac{m_{IBA\ Al}}{m_{IBA\ nFe\ concentrates}} = \frac{(m_{IBA\ nFe\ concentrates} - m_{non-metallic}) \times r_{Al}}{m_{IBA\ nFe\ concentrates}}$$

5. The mass of recycled ferrous metals/aluminium originating from packaging waste in all recycled ferrous metals/aluminium separated from incineration bottom ash shall be determined through sampling surveys of the waste that enters the incineration operation. These surveys shall be carried out at least every five years and when there are reasons to expect that the composition of the incinerated waste has significantly changed. The mass of ferrous metals/aluminium originating from packaging waste shall be calculated by applying the following formula:

$$m_{PW\ IBA\ Fe/Al} = \frac{m_{PW\ Fe/Al}}{m_{W\ Fe/Al}} \times m_{total\ IBA\ Fe/Al}$$

ANNEX IV

Format for quality check

I. Objectives of the report

The objectives of the quality check report are as follows:

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1. Evaluate the methodology to report on the annual consumption of lightweight plastic carrier bags;
2. Evaluate the quality of data on reusable packaging;
3. Check the comprehensiveness of Member State application of the definition of packaging waste, in particular as regards data on packaging waste generation;
4. Evaluate the quality of data collection processes, including the scope and validation of administrative data sources and the statistical validity of survey-based approaches;
5. Understand the reasons for significant changes in reported data between reference years and ensure confidence in the accuracy of that data;
6. Ensure the application of the rules and common methodologies to measure metals separated after the incineration of packaging waste; and
7. Verify compliance with specific requirements established in the rules for calculating the recycling targets for packaging waste.

II. General information

1. Member State:
2. Organisation submitting the data and the description:
3. Contact person / contact details:
4. Reference year:
5. Delivery date / version:
6. Link to data publication by the Member State (if any):

III. Annual consumption of lightweight plastic carrier bags

1. Description of the parties involved in the data collection

Name of institution	Description of key responsibilities
<i>Add rows as appropriate.</i>	

2. Description of methods used
 - ...
 - ...
3. Accuracy of the data
 - 3.1. Description of main issues affecting the accuracy of data on annual consumption of lightweight plastic carrier bags, including errors related to sampling, coverage, measurement, processing and non-response
 - ...
 - ...
 - 3.2. Explanation of the scope and validity of surveys to collect data on the annual consumption of lightweight plastic carrier bags

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3.3. Statistical surveys used regarding the annual consumption of lightweight plastic carrier bags

Scope of the survey	Year	Statistical units	Percentage of population surveyed	Data (t)	Confidence level	Error margin	Adjustment from the survey year to the current year	Other details
<i>Add rows for each survey used.</i>								

3.4. Differences from previous year's data

Significant methodological changes in the calculation method for the current reference year, if any (please include in particular retrospective revisions, their nature and whether a break-flag is required for a certain year).

...

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IV. Reusable packaging

1. Parties involved in the data collection

Name of institution	Description of key responsibilities
<i>Add rows as appropriate.</i>	

2. Description of the application of the definition of reusable packaging in the national data collection system, including ensuring that reusable packaging placed on the market for the first time is reused as part of a system to reuse packaging and that all rotations of reusable packaging are captured

...

...

3. Methods to collect and aggregate the data for the different categories, type of packaging and systems to reuse packaging

Packaging material	Category of packaging covered (sales, grouped or	Type of packaging (for example bottles, crates, containers)	Description of the reuse system (open-loop or close-loop system)	Detailed description of the methods to collect and aggregate the
<i>Add rows after each material as appropriate.</i>				

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	transport packaging)			data, including sources of information, coverage, and any estimates used if possible separately for each combination of packaging material, category, type of packaging and reuse system
Plastic				
Wood				
Ferrous metals				
Aluminium				
Glass				
Paper and cardboard				
Other				

Add rows after each material as appropriate.

4. Data verification

Packaging material	Detailed description of methods for verification of data on reusable packaging if possible separately for each combination of packaging material, category, type of packaging and reuse system
Plastic	
Wood	
Ferrous metals	
Aluminium	
Glass	
Paper and cardboard	
Other	

5. Accuracy of the data

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- 5.1. Description of main issues affecting the accuracy of data on reusable packaging, including errors related to sampling, coverage, measurement, processing and non-response

...

...

- 5.2. Explanation of the scope and validity of surveys to collect data on reusable packaging

...

...

- 5.3. Statistical surveys used regarding reusable packaging

Packaging material	Year	Statistical units	Percentage of population surveyed	Data (tonnes)	Confidence level	Error margin	Details of adjustments from the survey year to the current year	Other details

Add rows for each survey used.

- 5.4. Differences from previous year's data

Significant methodological changes in the calculation method for the current reference year, if any (please include in particular retrospective revisions, their nature and whether a break-flag is required for a certain year)

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V. Packaging waste

1. Description of the parties involved in the data collection

Name of institution	Description of key responsibilities

Add rows as appropriate.

2. Description of methods used

- 2.1. Packaging waste generation

- 2.1.1. Methods for determining packaging waste generation (mark with a cross all the relevant cells)

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Packaging waste material/ Data collection methods	Total	Plastic	Wood	Ferrous metals	Aluminium	Glass	Paper and cardboard	Other
Use of data on packaging placed on the market								
Administrative reporting								
Surveys								
Electronic registry								
Waste analysis								
Data from waste operators								
Data from municipalities								
Data from extended producer responsibility schemes								
Production and Foreign Trade Statistics								
Other (specify)								

Description of the verification methods concerning data on packaging waste generated in case data on packaging placed on the market is used

...

...

- 2.1.2. Explanation of the application of estimates in case data on packaging placed on the market is used (for instance, where data collection does not cover the whole market

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or in order to take account of free riders, private shipments in or out of the country or on-line sales)

...

...

- 2.1.3. Indication whether an estimate has been calculated and added (Yes/No) and if 'Yes' the added volume in % of the total

Packaging waste material/ Validation	Total	Plastic	Wood	Ferrous metals	Aluminium	Glass	Paper and cardboard	Other
General estimates (e.g. based on surveys)								
Free-riders								
Private shipments								
On-line sales								
Others								

- 2.1.4. Description of the methodology and verification of data on packaging waste generated in case data on packaging waste is used, including (a) how non-packaging waste collected together with packaging waste as well as (b) packaging materials in other waste (mixed waste streams) are accounted for.

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- 2.1.5. Description of the methodology to report on composite packaging, including where materials contained in composite packaging and representing less than 5 % of the mass of the packaging unit are not reported separately.

...

...

- 2.1.6. Verification of data on packaging waste generated

Packaging waste material	Cross-check(yes/no)	Time-series check(yes/no)	Audit(yes/no)	Verification Process
Plastic				
Wood				
Ferrous metals				

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producer responsibility schemes								
Other (specify)								

Additional information about the methods, including the combination of methods used

...

...

2.2.3. Measurement points for recycling applied by the Member State

Packaging waste material	Description of measurement points used (at calculation point or at the output of sorting operation with subtraction of non-target materials as appropriate, end-of-waste criteria, etc.), including variation at regional and local level
Plastic	
Wood	
Ferrous metals	
Aluminium	
Glass	
Paper and cardboard	
Other	

Detailed description of the methodology to calculate the amount of non-target materials removed between the measurement and the calculation points, where applicable

...

...

2.2.4. Description of the methodology to determine per material the amount of recycled materials contained in composite packaging or of packaging composed of multiple materials, and information on any exemptions applied for materials constituting less than 5 % of the total mass of the packaging unit.

...

...

2.2.5. Use of Average Loss Rates (ALRs)

Description of the sorted packaging waste to which ALRs are applied, types of sorting plants to which different ALRs apply, the methodological approach to calculating ALRs at such point(s), including the statistical accuracy of any surveys used, or the nature of any technical specifications.

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Sorted waste material and sorting plant type	ALR applied (in %)	Description
--	--------------------	-------------

Add rows as appropriate.

2.2.6. Attribution of waste to packaging and non-packaging types and correction for humidity

Description, where applicable, of the methodology to exclude non-packaging waste from the reported amount of recycled packaging waste and of the methodology to correct the amount of packaging waste at the measurement point in order to reflect the natural humidity rate of packaging (including by using relevant European standards). Aggregated data across facilities of a similar type is acceptable.

Packaging waste material	Facility type	Share of packaging waste (%)	Description of the methodologies applied to obtain the percentage
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Add rows as appropriate.

2.2.7. Attribution of waste to different Member States

Description of the methodology to exclude waste originating from other countries, where applicable. Aggregated data across facilities of a similar type is acceptable.

Packaging waste material	Facility type	Share of waste from the Member State (%)	Description of the methodologies applied to obtain the percentage
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Add rows as appropriate.

2.2.8. Other recovery of waste

Description of treatment of waste reported under the category of other recovery and the share of waste (%) subject to such treatment

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2.2.9. Information on the relevance of temporary storage of packaging waste to the amounts of treated waste in a given year and any estimates of waste recycled in the current reference year following temporary storage in a previous reference year, and waste going to temporary storage in the current reference year

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2.2.10. Verification of data on packaging waste recycling

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Packaging waste material	Cross-check(yes/no)	Time-series check(yes/no)	Audit(yes/no)	Verification Process
Plastic				
Wood				
Ferrous metals				
Aluminium				
Mixed waste				
Other				

2.2.11. Calculation of recycling of metals from incinerator bottom ash

Detailed description of the method to collect data in order to calculate the amount of metals separated from incineration bottom ash in accordance with the Commission Implementing Act adopted in accordance with Article 37(7) of Directive 2008/98/EC

Data	Description of the measurement method to obtain the data
Total amount of metal concentrate extracted from incinerator bottom ash	
Average level of metallic content in the total amount of metal concentrate, including the reliability of any surveys undertaken	
Proportion of waste entering incineration plants that is packaging waste, including the reliability of any surveys undertaken	

2.3. Accuracy of the data

2.3.1. Description of main issues affecting the accuracy of data on the generation and treatment of packaging waste, including errors related to sampling, coverage, measurement, processing and non-response

...

...

2.3.2. Explanation of the scope and validity of surveys to collect data on the generation and treatment of packaging waste

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2.3.3. Statistical surveys used regarding packaging waste generation and treatment

Component of	Year	Statistical units	Percentage of	Data (tonnes)	Confidence level	Error margin	Details of adjustments	Other details
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Add rows for each survey used.

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packaging waste		population surveyed				from the survey year to the current year

Add rows for each survey used.

2.3.4. Differences from previous year's data

Significant methodological changes in the calculation method for the current reference year, if any (please include in particular retrospective revisions, their nature and whether a break-flag is required for a certain year)

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2.3.5. Explanation detailing the causes of the tonnage difference (in relation to which waste streams, sectors or estimates have caused the difference, and what the underlying cause is) for any component of packaging waste generated and recycled which shows greater than a 10 % variation from the data submitted for the previous data year

Material	Variation (%)	Main reason for variation

Add rows as appropriate.

VI. Traceability of waste and ensuring its treatment in conditions that are broadly equivalent of the requirements of EU environmental law

1. Detailed description of the system for quality control and traceability for packaging waste pursuant to Article 6a(3) and (8) of Directive 94/62/EC

...

...

2. Waste treated outside the Member State

Packaging waste material	Subject to final treatment in the Member State(yes/no)	Shipped to another EU Member State(yes/no)	Exported outside the EU(yes/no)	Description of specific measures for quality control and traceability of packaging waste, in particular as regards monitoring and

Changes to legislation: There are outstanding changes not yet made to Commission Decision of 22 March 2005 establishing the formats relating to the database system pursuant to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste (notified under document number C(2005) 854) (Text with EEA relevance) (2005/270/EC). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

				validation of data
Plastic				
Wood				
Ferrous metals				
Aluminium				
Glass				
Paper and cardboard				
Other				

3. Description of measures to ensure that, in accordance with Article 6a(8) of Directive 94/62/EC, the exporter can prove that the shipment of waste complies with the requirements of Regulation (EC) No 1013/2006 of the European Parliament and of the Council⁽¹⁾ and that the treatment of waste outside the Union took place in conditions that are broadly equivalent to the requirements of the relevant Union environmental law

...

...

VII. Confidentiality

Justification to withhold the publication of specific parts of this report:

...

...

VIII. Main national websites, reference documents and publications

...

...]

Changes to legislation: *There are outstanding changes not yet made to Commission Decision of 22 March 2005 establishing the formats relating to the database system pursuant to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste (notified under document number C(2005) 854) (Text with EEA relevance) (2005/270/EC). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes*

- (1) [^{F3}Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste (OJ L 190, 12.7.2006, p. 1).]

Textual Amendments

- F3** Inserted by [Commission Implementing Decision \(EU\) 2019/665 of 17 April 2019 amending Decision 2005/270/EC establishing the formats relating to the database system pursuant to European Parliament and Council Directive 94/62/EC on packaging and packaging waste \(notified under document C\(2019\) 2805\) \(Text with EEA relevance\).](#)

Changes to legislation:

There are outstanding changes not yet made to Commission Decision of 22 March 2005 establishing the formats relating to the database system pursuant to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste (notified under document number C(2005) 854) (Text with EEA relevance) (2005/270/EC). Any changes that have already been made to the legislation appear in the content and are referenced with annotations.

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Changes and effects yet to be applied to :

- [Decision revoked by S.I. 2019/620 Sch. para. 12](#)