



**SLOVAK ENVIRONMENT  
AGENCY**

**STUDY ON ESTIMATION OF FREE-RIDING SHARE  
IN THE FIELD  
OF PLASTIC PACKAGING PRODUCERS  
IN THE SLOVAK REPUBLIC**

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## List of acronyms and abbreviations

BR	Business Register
Coll.	Collection of Laws
EC	European Commission
EPR	Extended Producer Responsibility
EU	European Union
MoE SR	Ministry of Environment of the Slovak Republic
NACE	Statistical classification of economic activities in the European Community
NC SR	National Council of the Slovak Republic
No.	Number
POM	Placed on the market
PRO	Producer Responsibility Organisation
RPP	Register of Packaging Producers



# 1 Executive summary

The study focuses on the estimation of free-riding share in the field of plastic packaging producers in the Slovak Republic. Free-riding is a phenomenon that occurs when one subject (or individual) benefits from the actions and efforts of another without paying for or sharing the costs. In general, free-riding is considered a failure of the conventional free market system where an organization or a person benefits from public good but does not contribute to the cost of collective provision.

In the field of plastic packaging, free-rider means a producer or distributor placing on the market plastic packaging or packaged products who do not report to a producer responsibility organisation or a public authority, nor otherwise taking financial responsibility or financial and organisational responsibility for the management of the plastic packaging waste; or reports a smaller amount than actually placed on the market<sup>1</sup>. The consequences are that free-riders avoid producer obligations and costs and thus gain a competitive advantage.

The extended producer responsibility scheme<sup>2</sup> is an important environmental policy instrument where producers of specified products bear financial and organisational responsibility for the management of the waste arising from such products placed on the market. Many countries face a challenge in identifying producers falling under the EPR scheme<sup>3</sup>. Most producers are small unregistered manufacturers.

The first framework for an EPR scheme in the field of packaging and packaging waste in the Slovak Republic was introduced by Act No. 529/2002 Coll. on packaging and amendments to certain acts. The data on the amounts of packaging placed on the market, as well as on the amounts of packaging waste generated, recycled or recovered have been monitored since 2003.

Based on experience gained from ad-hoc or planned environmental inspections executed in the Slovak Republic, it has been detected that not all packaging producers have been covered by the EPR scheme.

Estimation of free-riding share in the field of plastic packaging producers in the Slovak Republic was based on the identification of potential packaging producers by analyses and comparison of the Business Register, the Register of Packaging Producers and the FinStat PREMIUM database. Year 2022 was chosen to be the reference year. The amount of packaging waste generated in the Slovak Republic is deemed to be equal to the amount of the packaging placed on the market in the given year. The estimation of the share of free-riders was based on two approaches used - an approach based on data on packaging placed on the market and an approach based on data on plastic packaging placed on the market more detailed described in Sub-chapter 3.5.

Results of the study were provided in an aggregated form at the level of NACE code subclasses due to the protection of confidential statistical data from misuse in all provided and published outputs without the possibility of direct or indirect identification of the entity.

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<sup>1</sup> Commission Implementing Regulation (EU) 2023/595 of 16 March 2023 establishing the form for the statement relating to the own resource based on non-recycled plastic packaging waste pursuant to Council Regulation (EU, Euratom) 2021/770 (OJ L 79, 17.3.2023, p. 151)

<sup>2</sup> Directive (EU) 2018/851 of the European Parliament and of the Council of 30 May 2018 amending Directive 2008/98/EC on waste (OJ L 150, 14.6.2018, p. 109)

<sup>3</sup> European Commission – DG Environment (2014) Development of Guidance on Extended Producer Responsibility (EPR)

According to the preliminary results of processing the data on packaging placed on the market of the Slovak Republic in 2022 and both approaches, the share of free-riders in the field of plastic packaging in the Slovak Republic was estimated in average at the **level of 13 %**.

## 2 Legislative framework

### 2.1 EU legislative framework

Quality of the data provided on plastic packaging waste is crucial for ensuring the fulfilment of the requirements of the European Statistical System in two areas. These two areas are regulated by Directive 94/62/EC<sup>4</sup> and Regulation (EU, Euratom) 2021/770<sup>5</sup>.

According to Art. 12 of Directive 94/62/EC, Member states are obliged to report to the European Commission data concerning recycling and recovery of packaging waste and data on reusable packaging for each calendar year. The format for reporting this data is laid down by Commission Decision 2005/270/EC<sup>6</sup>.

From 1 January 2021, Council Regulation (EU, Euratom) 2021/770 laying down rules on calculating the own resource based on plastic packaging waste that is not recycled has been applied. According to the Regulation, the EU Member States shall provide the EC with statistical data on the weight of plastic packaging waste generated in the respective EU Member State as well as, on the weight of the recycled plastic packaging waste. The weight of plastic packaging waste that is not recycled shall be calculated as the difference between the weight of the plastic packaging waste generated in a given year, and the weight of the plastic packaging waste recycled in the year that is determined under Directive 94/62/EC. The format for reporting this data is established by Commission implementing Decision Regulation (EU) 2023/595<sup>1</sup>.

One of the means to strengthen the re-use of products and further advance the prevention, recycling and other recovery of waste is introduction of the EPR scheme according to Directive 2008/98/EC<sup>7</sup> and Directive 94/62/EC. EPR scheme definition as well as general minimum requirements for EPR schemes are set up in Directive (EU) 2018/851<sup>2</sup>. The EPR scheme represents a set of measures taken by Member States to ensure that producers of products bear financial responsibility or financial and organisational responsibility for management of the waste stage of a product's life cycle.

One of the EPR scheme requirements is to establish a reporting system to gather data on the packaging placed on the market of the Member State and data on the collection and treatment of waste resulting from that packaging.

Generally, there is an assumption, that countries using a "placed-on-the-market approach"<sup>1</sup> to estimate packaging waste generated might underreport their data since not all "market players" meet the EPR scheme requirements. According to Art. 2 point 14. of Commission Implementing Regulation (EU) 2023/595, when estimating plastic packaging waste generated based on placing on the market

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<sup>4</sup> European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste (OJ L 365, 31.12.1994, p. 10)

<sup>5</sup> Council Regulation (EU, Euratom) 2021/770 of 30 April 2021 on the calculation of the own resource based on plastic packaging waste that is not recycled, on the methods and procedure for making available that own resource, on the measures to meet cash requirements, and on certain aspects of the own resource based on gross national income (OJ L 165, 11.5.2021, p. 15)

<sup>6</sup> 2005/270/EC: 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 (OJ L 86, 5.4.2005, p. 6)

<sup>7</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)



data, the data should be complemented, besides other estimations, with the estimated amounts for free-riders; producers below the *de minimis* threshold; self-compliers; after-placed-on-the-market exports; online trade; private imports; private exports; reusable packaging placed on the market for the first time; reusable packaging that became waste any other relevant estimation.

## 2.2 Slovak legislative framework

Relevant European legislation on packaging and packaging waste was transposed into Slovak legislation by Act No. 79/2015 Coll.<sup>8</sup>, Decree of the MoE SR No. 373/2015 Coll.<sup>9</sup> and Decree of the MoE SR No. 366/2015 Coll.<sup>10</sup>

According to Art. 52(11) of Act No. 79/2015 Coll., a packaging producer is a natural person – entrepreneur or a legal entity who

- a) uses packaging for packaging of goods or fills goods into packaging and places these goods on the market of the Slovak Republic under their trademark,
- b) is a person for whom goods are packaged or filled and under whose trademark these goods are placed on the market of the Slovak Republic,
- c) places on the market of the Slovak Republic packed goods in a manner other than referred to in a) or b) or transports or has the goods in packaging transported across the state border of the Slovak Republic and places them on the market of the Slovak Republic or for distribution in the Slovak Republic,
- d) as a distributor, delivers, for payment or free of charge, packaging to end-users to be used directly for packaging of goods,
- e) as a distributor uses the packaging to package the distributed goods or part thereof, or fills the packaging with the distributed goods, or
- f) places packaging on the market of the Slovak Republic, except persons supplying empty packaging to persons referred to in a), b), c), d) and e) or to a person who packages or fills the goods for a person referred to in b).

The extended producer responsibility scheme in the Slovak Republic is specified in the Part 4 of Act No. 79/2015 Coll. The EPR scheme covers 7 types of products and waste streams stemming from them (electrical and electronic equipment, batteries, packaging, vehicles, tyres, non-packaging products and certain single-use plastic products). General producers' obligations are stated in the First Section of Part 4 of Act No. 79/2015 Coll. Further packaging producers' obligations are specified in the Third Section of Part 4 of the aforementioned Act. The operation of the EPR scheme (registers of producers, authorisation, PRO obligations etc.) are more detailed in the Decree of the MoE SR No. 373/2015 Coll.

According to Art. 27(4) of Act No. 79/2015 Coll., packaging producers and producer responsibility organizations are obliged to report to the Ministry of Environment of the Slovak Republic data on packaging placed on the market as well as data on recycling and recovery of packaging waste. Reporting deadline, reporting frequency, as well as format for reporting the data, are laid down in Art. 15 of Decree of the MoE SR No. 366/2015 Coll.

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<sup>8</sup> Act of the NC SR No. 79/2015 Coll. on waste and amendments to certain acts as amended

<sup>9</sup> Decree of the MoE SR No. 373/2015 Coll. on extended producer responsibility and the management of specified dedicated waste streams as amended

<sup>10</sup> Decree of the MoE SR No. 366/2015 Coll. on record keeping and reporting obligations as amended

According to Art. 59 of Act No. 79/2015 Coll., PROs are required to provide the MoE SR with data on the amounts of packaging placed on the market by individual packaging producers covered by the PRO.

## 3 Methodology

### 3.1 Data sources

- a) Business Register (Register of Organizations) according to Art. 20(1)(a) of Act No. 540/2001 Coll. on State Statistics as amended

1,857,706 entities were registered in the Business Register as of June 2023. The number of entities was reduced by 111,393 entities that were not assigned any code according to the national statistical classification of economic activities SK NACE Rev. 2 (hereinafter “NACE code”). The number reduction resulted in the amount of 1,746,313 entities to be considered. For comparison purposes, from this reduced number (1,746,313) of entities in the Business Register were selected entities economically active in 2022 that had assigned the relevant NACE code and at the same time were not registered in the Register of Packaging Producers. The selected set represented 254,739 entities.

- b) Register of Packaging Producers according to Act No. 79/2015 Coll.

18,851 entities were registered in the Register of Packaging Producers as of June 2023.

- c) FinStat PREMIUM online database (<https://www.finstat.sk/>)

The FinStat PREMIUM database contained financial data of 365,076 Slovak companies.

- d) Database on amounts of packaging placed on the market of the Slovak Republic

The Ministry of Environment of the Slovak Republic provided the project team with a database on the amounts of packaging placed on the market in the Slovak Republic by packaging producers reported to the MoE SR by their producer responsibility organizations according to Art. 59 of Act No. 79/2015 Coll. The database contained data on 9,733 entities.

- e) Database on amounts of plastic packaging placed on the market of the Slovak Republic

The MoE SR provided the project team with a database on the amounts of plastic packaging placed on the market of the Slovak Republic by packaging producers and reported to the MoE SR by their producer responsibility organizations according to Art. 59 of Act No. 79/2015 Coll. The database contained data on 432 entities.

### 3.2 Reference year

Due to the need to have the most up-to-date list of entities available, the year 2022 has been chosen to be the reference year, as the necessary economic data on the entities was available for that year at that time.

### 3.3 Selection of relevant economic activities

The national statistical classification of economic activities SK NACE Rev. 2 was used for the identification of free-riders in the field of packaging under the extended producer responsibility scheme. The relevant type of economic activity is an activity in which it is assumed that the packaging could be placed on the market of the Slovak Republic. The sections of economic activities are divided into two groups – sections considered to be relevant and sections evaluated as non-relevant for the process of identification of free-riders to the EPR for packaging. The list of relevant and non-relevant sections is provided in Table 1.

**Table 1. NACE sections relevant and sections non-relevant for the identification of free-riders**

Relevant sections		Non-relevant sections	
A	AGRICULTURE, FORESTRY AND FISHING	B	MINING AND QUARRYING
C	MANUFACTURING	D	ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY
G	WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	E	WATER SUPPLY; SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES
I	ACCOMMODATION AND FOOD SERVICE ACTIVITIES	F	CONSTRUCTION
J	INFORMATION AND COMMUNICATION	H	TRANSPORTATION AND STORAGE
N	ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	K	FINANCIAL AND INSURANCE ACTIVITIES
S	OTHER SERVICE ACTIVITIES	L	REAL ESTATE ACTIVITIES
		M	PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES
		O	PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY
		P	EDUCATION
		Q	HUMAN HEALTH AND SOCIAL WORK ACTIVITIES
		R	ARTS, ENTERTAINMENT AND RECREATION
		T	ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE
		U	ACTIVITIES OF EXTRATERRITORIAL ORGANISATIONS AND BODIES

From the total number of 526 NACE codes at the subclass level (5 numeric NACE codes) identified in the Business Register, 281 NACE codes were considered to be relevant for the determination of potential packaging producers and were assigned by value (A). The list of relevant NACE codes is provided in ANNEX I.

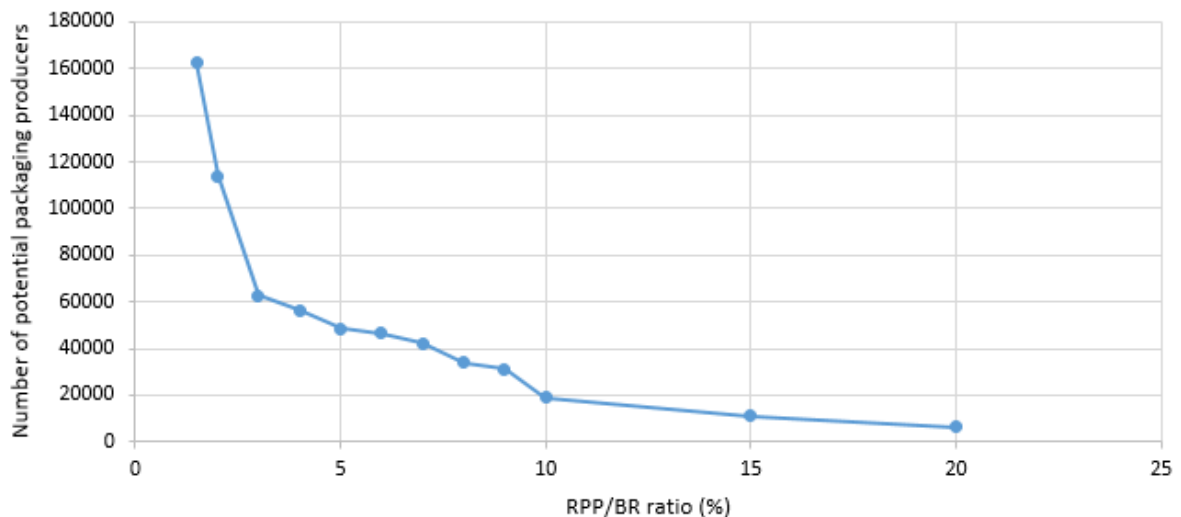
### 3.4 Selection of potential packaging producers

The selection of potential packaging producers was based on the analyses and the comparison of the Business Register, the Register of Packaging Producers and the FinStat PREMIUM database. The comparison of the data sources was based on the entity's identification number (Business ID).

The selection of potential packaging producers was carried out at the level of individual NACE codes considering the ratio of the number of entities registered in the Register of Packaging Producers to the number of all entities in the Business Register under the same NACE code.

Because most of the potential producers would fall under the threshold of 3 % (low representation of registered packaging producers to the number of all entities in the same NACE code in the Business Register), the ratio of 3 % was determined as the significant threshold for the further selection of potential producers (the obvious break in the curve in Figure 1), so subsequently only entities within the NACE codes with the ratio of 3 % or higher were taken into further consideration. Thus, the number of 254,739 entities was reduced to 62,776 (potential packaging producers).

**Figure 1. Number of potential packaging producers by RPP/BR ratio**



The database of entities that were under the aforementioned threshold (less than 3 %) was additionally analysed by comparing it to the FinStat PREMIUM database, containing some economic indicators. Entities that achieved annual revenue of at least 1 million EUR in 2022 were selected as relevant, considering the quantity of potential packaging placed on the market of the Slovak Republic. Using this analysis, another 2,669 entities (formerly eliminated using the

threshold of 3 %) were added to the selected set of 62,776 entities, resulting in the final number of potential packaging producers of approximately 65,500 entities.

The list of potential packaging producers is provided in an aggregated form at the level of NACE code subclasses due to the protection of confidential statistical data from misuse in all provided and published outputs without the possibility of direct or indirect identification of the entity.

The list of potential packaging producers aggregated to NACE code subclasses is provided in ANNEX II.

### **3.5 Estimation of the share of free-riders**

The estimation of the share of free-riders was based on two approaches used:

- approach based on data on packaging placed on the market
- approach based on data on plastic packaging placed on the market.

#### **3.5.1 Approach based on data on packaging placed on the market**

The approach was based on the data on packaging placed on the market of the Slovak Republic provided to the MoE SR by the producer responsibility organizations according to Art. 59 of Act No. 79/2015 Coll. Data was available for 9,733 entities (packaging producers) and referred to 2022.

The data from packaging producers was aggregated at the level of NACE code subclasses.

The average amount of packaging placed on the market per one packaging producer (at the level of NACE code subclass) was calculated. This average amount was multiplied by the number of potential packaging producers estimated at the level of relevant NACE codes as referred to in Annex II.

At the same time, the proportional share of the amount of packaging placed on the market to the total amount of packaging placed on the market was calculated at the level of the NACE code subclasses.

The calculated amount of packaging was adjusted by multiplying it by the average value of the proportional share of the average amount of packaging placed on the market for each relevant NACE code subclasses.

It was estimated that free-riders could have placed the amount of approx. 67,200 t of packaging placed on the market of the Slovak Republic in 2022 as referred to in Annex III.

The amount of plastic packaging was estimated by multiplying the amount of packaging placed on the market by the value of 0.23, as the average portion of plastic packaging placed on the market to the total amount of packaging placed on the market annually in the Slovak Republic within the period 2010 – 2021 was 23 % as referred to in Table 2.

**Table 2. Portion of plastic packaging placed on the market to the total amount of packaging placed on the market in the Slovak Republic in years 2010 - 2021**

Year	POM		Plastic packaging POM/ packaging total POM (%)
	Packaging total (t)	Plastic packaging (t)	
2010	436 342	105 779	24.24
2011	443 673	106 624	24.03
2012	614 448	142 956	23.27
2013	442 659	97 784	22.09
2014	463 613	97 704	21.07
2015	493 237	106 417	21.58
2016	517 843	119 409	23.06
2017	517 520	124 158	23.99
2018	556 646	131 925	23.70
2019	571 406	134 659	23.57
2020	565 939	128 224	22.66
2021	574 146	128 311	22.35
	<b>Average</b>		<b>22.97</b>

Using this approach, it was estimated that free-riders could have placed an amount of approx. 15,400 t of plastic packaging on the market of the Slovak Republic in 2022.

### 3.5.2 Approach based on data on plastic packaging placed on the market

The approach was based on the data on plastic packaging placed on the market of the Slovak Republic provided to the MoE SR by the producer responsibility organizations according to Art. 59 of Act No. 79/2015 Coll. Data was available for 432 entities (packaging producers) and referred to 2022.

The data from packaging producers was aggregated at the level of NACE code subclasses.

The average amount of plastic packaging placed on the market per one packaging producer (at the level of NACE code) was calculated. This average amount was multiplied by the number of potential packaging producers estimated at the level of relevant NACE codes as referred to in Annex II.

At the same time, the proportional share of the amount of plastic packaging placed on the market to the total amount of plastic packaging placed on the market was calculated at the level of the NACE code subclasses.

The calculated amount of plastic packaging was adjusted by multiplying it by the average value of the proportional share of the average amount of plastic packaging placed on the market for each relevant NACE code subclass.

**Using this approach, it was estimated that free-riders could have placed the amount of approx. 18,000 t of plastic packaging on the market of the Slovak Republic in 2022** as referred to in Annex IV.

According to Art. 15 of Decree of the MoE SR No. 366/2015 Coll. on record keeping and reporting obligations, packaging producers and packaging producer responsibility organizations are obliged to report data on packaging placed on the market as well as data on the treatment of packaging waste to the Ministry of Environment of the Slovak Republic not later than 28 February of the following year.

Based on the preliminary results of processing the data on packaging placed on the market of the Slovak Republic in 2022, it is assumed, that an amount of 126,382 t of plastic packaging was placed on the market of the Slovak Republic in 2022. The share of the amount of plastic packaging placed on the market of the Slovak Republic by free-riders in 2022 was estimated in both approaches as stated below in Table 3.

**Table 3. Estimation of the share of free-riding based on the two approaches used**

	<b>Plastic packaging placed on the market of the Slovak Republic in 2022</b>	<b>Plastic packaging placed on the market of the Slovak Republic by free-riders in 2022</b>	<b>Free-riders' share</b>
1. approach	126 382 t	15 400 t	12.19 %
2. approach	126 382 t	18 000 t	14.24 %

**In average, the share of free-riders in the field of plastic packaging in the Slovak Republic was estimated at the level of 13 % based on the forecast of the amount of plastic packaging placed on the market and both approaches mentioned above.**



## 4 Conclusion and recommendations

The share of free-riding in the field of plastic packaging producers under the extended producer responsibility in the Slovak Republic at the level of approx. 13 % was estimated based on the data and information on the economic activities of entities registered in the Business Register, on the data on amounts of packaging and packaging waste gathered in the Register of Packaging Producers, on the financial data gathered in the FinStat PREMIUM database as well as on the data on amounts of plastic packaging and plastic packaging placed on the market of the Slovak Republic by packaging producers and reported to the Ministry of Environment of the Slovak Republic by their producer responsibility organizations according to Art. 59 of Act No. 79/2015 Coll. on waste and amendments to certain acts as amended. Results of the study were provided in an aggregated form at the level of NACE code subclasses.

Based on the findings during conducting the study, the recommendations can be made as follows:

- An analysis of waste composition should be carried out for comparison with the results of the study.
- A unified format for reporting data according to Art. 59 of Act No. 79/2015 Coll. should be approved to increase the quality of the data reported.
- Capacities of inspection activities should be boosted to increase the focus on activities related to controls of meeting legal obligations by packaging producers.
- Producer responsibility organizations should be supported to include new packaging producers in their organisations to cope with, generally in the field of packaging, free-riding.
- Awareness raising and information activities should be increased to inform the business sector about legal provisions related to extended producer responsibility and help with distinguishing whether the enterprise activities fall under these provisions.

## 5 ANNEXES

### 5.1 ANNEX I. List of relevant NACE codes

NACE section	NACE sub-class	Economic activity
A	01110	Growing of cereals (except rice), leguminous crops and oil seeds
A	01130	Growing of vegetables and melons, roots and tubers
A	01190	Growing of other non-perennial crops
A	01210	Growing of grapes
A	01240	Growing of pome fruits and stone fruits
A	01250	Growing of other tree and bush fruits and nuts
A	01280	Growing of spices, aromatic, drug and pharmaceutical crops
A	01300	Plant propagation
A	01410	Raising of dairy cattle
A	01450	Raising of sheep and goats
A	01460	Raising of swine/pigs
A	01470	Raising of poultry
A	01491	Raising of other farm animals
A	01499	Raising of other small farm animals
A	01500	Mixed farming
A	01610	Support activities for crop production
A	01620	Support activities for animal production
A	01630	Post-harvest crop activities
A	01640	Seed processing for propagation
C	10110	Processing and preserving of meat
C	10120	Processing and preserving of poultry meat
C	10130	Production of meat and poultry meat products
C	10200	Processing and preserving of fish, crustaceans and molluscs
C	10310	Processing and preserving of potatoes
C	10320	Manufacture of fruit and vegetable juice
C	10390	Other processing and preserving of fruit and vegetables
C	10410	Manufacture of oils and fats
C	10420	Manufacture of margarine and similar edible fats
C	10510	Operation of dairies and cheese making
C	10520	Ice cream production
C	10610	Manufacture of grain mill products
C	10620	Manufacture of starches and starch products
C	10710	Manufacture of bread; manufacture of fresh pastry goods and cakes
C	10720	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
C	10730	Manufacture of macaroni, noodles, couscous and similar farinaceous products
C	10810	Manufacture of sugar
C	10820	Manufacture of cocoa, chocolate and sugar confectionery
C	10830	Processing of tea and coffee
C	10840	Manufacture of condiments and seasonings
C	10850	Manufacture of prepared meals and dishes
C	10860	Manufacture of homogenised food preparations and dietetic food
C	10890	Manufacture of other food products n.e.c.
C	10910	Manufacture of prepared feeds for farm animals
C	10920	Manufacture of prepared pet foods

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>
C	11020	Manufacture of wine from grape
C	11030	Manufacture of cider and other fruit wines
C	11040	Manufacture of other non-distilled fermented beverages
C	11050	Manufacture of beer
C	11060	Manufacture of malt
C	11070	Manufacture of soft drinks; production of mineral waters and other bottled waters
C	12000	Manufacture of tobacco products
C	13200	Weaving of textiles
C	13300	Finishing of textiles
C	13910	Manufacture of knitted and crocheted fabrics
C	13921	Manufacture of bedding articles and household textile articles
C	13922	Manufacture of home accessories, except carpets
C	13929	Manufacture of other textile articles, except apparel
C	13930	Manufacture of carpets and rugs
C	13940	Manufacture of cordage, rope, twine and netting
C	13950	Manufacture of non-wovens and articles made from non-wovens, except apparel
C	13960	Manufacture of other technical and industrial textiles
C	13990	Manufacture of other textiles n.e.c.
C	14110	Manufacture of leather clothes
C	14120	Manufacture of workwear
C	14130	Manufacture of other outerwear
C	14140	Manufacture of underwear
C	14190	Manufacture of other wearing apparel and accessories
C	14200	Manufacture of articles of fur
C	14310	Manufacture of knitted and crocheted hosiery
C	14390	Manufacture of other knitted and crocheted apparel
C	15110	Tanning and dressing of leather; dressing and dyeing of fur
C	15120	Manufacture of luggage, handbags and the like, saddlery and harness
C	15200	Manufacture of footwear
C	16210	Manufacture of veneer sheets and wood-based panels
C	16220	Manufacture of assembled parquet floors
C	16231	Manufacture of builders' carpentry and joinery
C	16232	Manufacture of elements for prefabricated buildings
C	16239	Manufacture of other builders' carpentry and joinery n. e. c.
C	16290	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
C	17110	Manufacture of pulp
C	17120	Manufacture of paper and paperboard
C	17210	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
C	17220	Manufacture of household and sanitary goods and of toilet requisites
C	17230	Manufacture of paper stationery
C	17290	Manufacture of other articles of paper and paperboard
C	18110	Printing of newspapers
C	18120	Other printing
C	18130	Pre-press and pre-media services
C	18140	Binding and related services
C	20120	Manufacture of dyes and pigments
C	20130	Manufacture of other inorganic basic chemicals
C	20140	Manufacture of other organic basic chemicals
C	20150	Manufacture of fertilisers and nitrogen compounds

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>
C	20200	Manufacture of pesticides and other agrochemical products
C	20300	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
C	20410	Manufacture of soap and detergents, cleaning and polishing preparations
C	20420	Manufacture of perfumes and toilet preparations
C	20520	Manufacture of glues
C	20530	Manufacture of essential oils
C	20590	Manufacture of other chemical products n.e.c.
C	20600	Manufacture of man-made fibres
C	21100	Manufacture of basic pharmaceutical products
C	21200	Manufacture of pharmaceutical preparations
C	22110	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
C	22190	Manufacture of other rubber products
C	22210	Manufacture of plastic plates, sheets, tubes and profiles
C	22220	Manufacture of plastic packing goods
C	22230	Manufacture of builders' ware of plastic
C	22290	Manufacture of other plastic products
C	23110	Manufacture of flat glass
C	23120	Shaping and processing of flat glass
C	23200	Manufacture of refractory products
C	23310	Manufacture of ceramic tiles and flags
C	23320	Manufacture of bricks, tiles and construction products, in baked clay
C	23419	Manufacture of ceramic household and ornamental articles n.e.c.
C	23490	Manufacture of other ceramic products
C	23510	Manufacture of cement
C	23520	Manufacture of lime and plaster
C	23610	Manufacture of concrete products for construction purposes
C	23620	Manufacture of plaster products for construction purposes
C	23690	Manufacture of other articles of concrete, plaster and cement
C	23910	Production of abrasive products
C	23990	Manufacture of other non-metallic mineral products n.e.c.
C	24200	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
C	25110	Manufacture of metal structures and parts of structures
C	25120	Manufacture of doors and windows of metal
C	25210	Manufacture of central heating radiators and boilers
C	25290	Manufacture of other tanks, reservoirs and containers of metal
C	25300	Manufacture of steam generators, except central heating hot water boilers
C	25400	Manufacture of weapons and ammunition
C	25500	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
C	25720	Manufacture of locks and hinges
C	25730	Manufacture of tools
C	25920	Manufacture of light metal packaging
C	25930	Manufacture of wire products, chain and springs
C	25940	Manufacture of fasteners and screw machine products
C	25990	Manufacture of other fabricated metal products n.e.c.
C	26110	Manufacture of electronic components
C	26120	Manufacture of loaded electronic boards
C	26200	Manufacture of computers and peripheral equipment
C	26301	Manufacture of telephone equipment and mobile communication equipment
C	26302	Manufacture of transmission equipment and transmitters
C	26309	Manufacture of other communication equipment

NACE section	NACE sub-class	Economic activity
C	26400	Manufacture of consumer electronics
C	26510	Manufacture of instruments and appliances for measuring, testing and navigation
C	26600	Manufacture of irradiation, electromedical and electrotherapeutic equipment
C	27110	Manufacture of electric motors, generators and transformers
C	27120	Manufacture of electricity distribution and control apparatus
C	27200	Manufacture of batteries and accumulators
C	27310	Manufacture of fibre optic cables
C	27320	Manufacture of other electronic and electric wires and cables
C	27330	Manufacture of wiring devices
C	27400	Manufacture of electric lighting equipment
C	27510	Manufacture of electric domestic appliances
C	27520	Manufacture of non-electric domestic appliances
C	27900	Manufacture of other electrical equipment
C	28120	Manufacture of fluid power equipment
C	28130	Manufacture of other pumps and compressors
C	28140	Manufacture of other taps and valves
C	28150	Manufacture of bearings, gears, gearing and driving elements
C	28210	Manufacture of ovens, furnaces and furnace burners
C	28220	Manufacture of lifting and handling equipment
C	28230	Manufacture of office machinery and equipment (except computers and peripheral equipment)
C	28250	Manufacture of non-domestic cooling and ventilation equipment
C	28290	Manufacture of other general-purpose machinery n.e.c.
C	28300	Manufacture of agricultural and forestry machinery
C	28410	Manufacture of metal forming machinery
C	28490	Manufacture of other machine tools
C	28920	Manufacture of machinery for mining, quarrying and construction
C	28930	Manufacture of machinery for food, beverage and tobacco processing
C	28940	Manufacture of machinery for textile, apparel and leather production
C	28960	Manufacture of plastic and rubber machinery
C	28990	Manufacture of other special-purpose machinery n.e.c.
C	29100	Manufacture of motor vehicles
C	29200	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
C	29310	Manufacture of electrical and electronic equipment for motor vehicles
C	29320	Manufacture of other parts and accessories for motor vehicles
C	30920	Manufacture of bicycles and invalid carriages
C	31010	Manufacture of office and shop furniture
C	31020	Manufacture of kitchen furniture
C	31030	Manufacture of mattresses
C	31090	Manufacture of other furniture
C	32110	Striking of coins
C	32120	Manufacture of jewellery and related articles
C	32130	Manufacture of imitation jewellery and related articles
C	32200	Manufacture of musical instruments
C	32300	Manufacture of sports goods
C	32400	Manufacture of games and toys
C	32500	Manufacture of medical and dental instruments and supplies
C	32990	Other manufacturing n.e.c.
G	45310	Wholesale trade of motor vehicle parts and accessories
G	45320	Retail trade of motor vehicle parts and accessories

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>
G	45400	Sale, maintenance and repair of motorcycles and related parts and accessories
G	46210	Wholesale of grain, unmanufactured tobacco, seeds and animal feeds
G	46220	Wholesale of flowers and plants
G	46310	Wholesale of fruit and vegetables
G	46320	Wholesale of meat and meat products
G	46330	Wholesale of dairy products, eggs and edible oils and fats
G	46340	Wholesale of beverages
G	46350	Wholesale of tobacco products
G	46360	Wholesale of sugar and chocolate and sugar confectionery
G	46370	Wholesale of coffee, tea, cocoa and spices
G	46380	Wholesale of other food, including fish, crustaceans and molluscs
G	46390	Non-specialised wholesale of food, beverages and tobacco
G	46410	Wholesale of textiles
G	46420	Wholesale of clothing and footwear
G	46430	Wholesale of electrical household appliances
G	46440	Wholesale of china and glassware and cleaning materials
G	46450	Wholesale of perfume and cosmetics
G	46460	Wholesale of pharmaceutical goods
G	46470	Wholesale of furniture, carpets and lighting equipment
G	46480	Wholesale of watches and jewellery
G	46490	Wholesale of other household goods
G	46510	Wholesale of computers, computer peripheral equipment and software
G	46520	Wholesale of electronic and telecommunications equipment and parts
G	46610	Wholesale of agricultural machinery, equipment and supplies
G	46620	Wholesale of machine tools
G	46630	Wholesale of mining, construction and civil engineering machinery
G	46640	Wholesale of machinery for the textile industry and of sewing and knitting machines
G	46650	Wholesale of office furniture
G	46660	Wholesale of other office machinery and equipment
G	46690	Wholesale of other machinery and equipment
G	46710	Wholesale of solid, liquid and gaseous fuels and related products
G	46720	Wholesale of metals and metal ores
G	46730	Wholesale of wood, construction materials and sanitary equipment
G	46740	Wholesale of hardware, plumbing and heating equipment and supplies
G	46750	Wholesale of chemical products
G	46760	Wholesale of other intermediate products
G	46770	Wholesale of waste and scrap
G	46900	Non-specialised wholesale trade
G	47110	Retail sale in non-specialised stores with food, beverages or tobacco predominating
G	47190	Other retail sale in non-specialised stores
G	47210	Retail sale of fruit and vegetables in specialised stores
G	47220	Retail sale of meat and meat products in specialised stores
G	47230	Retail sale of fish, crustaceans and molluscs in specialised stores
G	47240	Retail sale of bread, cakes, flour confectionery and sugar confectionery in specialised stores
G	47250	Retail sale of beverages in specialised stores
G	47260	Retail sale of tobacco products in specialised stores
G	47290	Other retail sale of food in specialised stores
G	47300	Retail sale of automotive fuel in specialised stores
G	47410	Retail sale of computers, peripheral units and software in specialised stores
G	47420	Retail sale of telecommunications equipment in specialised stores

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>
G	47430	Retail sale of audio and video equipment in specialised stores
G	47510	Retail sale of textiles in specialised stores
G	47520	Retail sale of hardware, paints and glass in specialised stores
G	47530	Retail sale of carpets, rugs, wall and floor coverings in specialised stores
G	47540	Retail sale of electrical household appliances in specialised stores
G	47590	Retail sale of furniture, lighting equipment and other household articles in specialised stores
G	47610	Retail sale of books in specialised stores
G	47620	Retail sale of newspapers and stationery in specialised stores
G	47630	Retail sale of music and video recordings in specialised stores
G	47640	Retail sale of sporting equipment in specialised stores
G	47650	Retail sale of games and toys in specialised stores
G	47710	Retail sale of clothing in specialised stores
G	47720	Retail sale of footwear and leather goods in specialised stores
G	47730	Dispensing chemist in specialised stores
G	47740	Retail sale of medical and orthopaedic goods in specialised stores
G	47750	Retail sale of cosmetic and toilet articles in specialised stores
G	47760	Retail sale of flowers, plants, seeds, fertilisers, pet animals and pet food in specialised stores
G	47770	Retail sale of watches and jewellery in specialised stores
G	47789	Other retail sale of new goods in specialised stores n.e.c.
G	47790	Retail sale of second-hand goods in stores
G	47820	Retail sale via stalls and markets of textiles, clothing and footwear
G	47890	Retail sale via stalls and markets of other goods
G	47910	Retail sale via mail order houses or via Internet
G	47990	Other retail sale not in stores, stalls or markets
I	55100	Hotels and similar accommodation
I	56101	Licensed restaurants
I	56109	Other special food services
I	56210	Event catering activities
I	56290	Other food service activities
I	56300	Beverage serving activities
J	58110	Book publishing
J	58130	Publishing of newspapers
J	58140	Publishing of journals and periodicals
J	58190	Other publishing activities
J	59110	Motion picture, video and television programme production activities
J	59120	Motion picture, video and television programme post-production activities
N	82920	Packaging activities
N	82990	Other business support service activities n.e.c.
S	96010	Washing and (dry-)cleaning of textile and fur products

## 5.2 ANNEX II. List of potential packaging producers

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers
A	01110	Growing of cereals (except rice), leguminous crops and oil seeds	174
A	01130	Growing of vegetables and melons, roots and tubers	11
A	01190	Growing of other non-perennial crops	other
A	01210	Growing of grapes	243
A	01240	Growing of pome fruits and stone fruits	177
A	01250	Growing of other tree and bush fruits and nuts	other
A	01300	Plant propagation	53
A	01410	Raising of dairy cattle	653
A	01450	Raising of sheep and goats	other
A	01460	Raising of swine/pigs	13
A	01470	Raising of poultry	420
A	01491	Raising of other farm animals	other
A	01499	Raising of other small farm animals	other
A	01500	Mixed farming	104
A	01610	Support activities for crop production	32
A	01620	Support activities for animal production	3
A	01630	Post-harvest crop activities	13
C	10110	Processing and preserving of meat	276
C	10120	Processing and preserving of poultry meat	other
C	10130	Production of meat and poultry meat products	160
C	10200	Processing and preserving of fish, crustaceans and molluscs	5
C	10310	Processing and preserving of potatoes	124
C	10320	Manufacture of fruit and vegetable juice	26
C	10390	Other processing and preserving of fruit and vegetables	173
C	10410	Manufacture of oils and fats	33
C	10420	Manufacture of margarine and similar edible fats	other
C	10510	Operation of dairies and cheese making	75
C	10520	Ice cream production	77
C	10610	Manufacture of grain mill products	114
C	10710	Manufacture of bread; manufacture of fresh pastry goods and cakes	1,091
C	10720	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes	230
C	10730	Manufacture of macaroni, noodles, couscous and similar farinaceous products	39
C	10810	Manufacture of sugar	27
C	10820	Manufacture of cocoa, chocolate and sugar confectionery	118
C	10830	Processing of tea and coffee	120
C	10840	Manufacture of condiments and seasonings	31
C	10850	Manufacture of prepared meals and dishes	106
C	10860	Manufacture of homogenised food preparations and dietetic food	21
C	10890	Manufacture of other food products n.e.c.	2,475
C	10910	Manufacture of prepared feeds for farm animals	367
C	10920	Manufacture of prepared pet foods	14
C	11020	Manufacture of wine from grape	192



<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>	<b>Number of entities selected as potential packaging producers</b>
C	11030	Manufacture of cider and other fruit wines	9
C	11040	Manufacture of other non-distilled fermented beverages	9
C	11050	Manufacture of beer	72
C	11060	Manufacture of malt	3
C	11070	Manufacture of soft drinks; production of mineral waters and other bottled waters	889
C	12000	Manufacture of tobacco products	6
C	13300	Finishing of textiles	61
C	13910	Manufacture of knitted and crocheted fabrics	35
C	13921	Manufacture of bedding articles and household textile articles	15
C	13922	Manufacture of home accessories, except carpets	31
C	13929	Manufacture of other textile articles, except apparel	384
C	13930	Manufacture of carpets and rugs	21
C	13940	Manufacture of cordage, rope, twine and netting	15
C	13950	Manufacture of non-wovens and articles made from non-wovens, except apparel	6
C	13960	Manufacture of other technical and industrial textiles	9
C	13990	Manufacture of other textiles n.e.c.	932
C	14110	Manufacture of leather clothes	46
C	14120	Manufacture of workwear	154
C	14130	Manufacture of other outerwear	12
C	14140	Manufacture of underwear	30
C	14190	Manufacture of other wearing apparel and accessories	18
C	14310	Manufacture of knitted and crocheted hosiery	23
C	14390	Manufacture of other knitted and crocheted apparel	136
C	15120	Manufacture of luggage, handbags and the like, saddlery and harness	88
C	15200	Manufacture of footwear	520
C	16210	Manufacture of veneer sheets and wood-based panels	165
C	16220	Manufacture of assembled parquet floors	23
C	16231	Manufacture of builders' carpentry and joinery	33
C	16232	Manufacture of elements for prefabricated buildings	13
C	16239	Manufacture of other builders' carpentry and joinery n. e. c.	16
C	16290	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials	47
C	17120	Manufacture of paper and paperboard	53
C	17210	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	69
C	17220	Manufacture of household and sanitary goods and of toilet requisites	47
C	17230	Manufacture of paper stationery	18
C	17290	Manufacture of other articles of paper and paperboard	153
C	18110	Printing of newspapers	13
C	18120	Other printing	788
C	18140	Binding and related services	139
C	20120	Manufacture of dyes and pigments	23
C	20130	Manufacture of other inorganic basic chemicals	7
C	20140	Manufacture of other organic basic chemicals	55
C	20150	Manufacture of fertilisers and nitrogen compounds	60

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers
C	20200	Manufacture of pesticides and other agrochemical products	5
C	20300	Manufacture of paints, varnishes and similar coatings, printing ink and mastics	25
C	20410	Manufacture of soap and detergents, cleaning and polishing preparations	126
C	20420	Manufacture of perfumes and toilet preparations	34
C	20520	Manufacture of glues	other
C	20530	Manufacture of essential oils	other
C	20590	Manufacture of other chemical products n.e.c.	141
C	20600	Manufacture of man-made fibres	65
C	21100	Manufacture of basic pharmaceutical products	other
C	21200	Manufacture of pharmaceutical preparations	13
C	22110	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres	86
C	22190	Manufacture of other rubber products	1,046
C	22210	Manufacture of plastic plates, sheets, tubes and profiles	79
C	22220	Manufacture of plastic packing goods	50
C	22230	Manufacture of builders' ware of plastic	421
C	22290	Manufacture of other plastic products	641
C	23200	Manufacture of refractory products	7
C	23310	Manufacture of ceramic tiles and flags	9
C	23320	Manufacture of bricks, tiles and construction products, in baked clay	18
C	23419	Manufacture of ceramic household and ornamental articles n.e.c.	other
C	23490	Manufacture of other ceramic products	44
C	23510	Manufacture of cement	11
C	23520	Manufacture of lime and plaster	other
C	23610	Manufacture of concrete products for construction purposes	323
C	23620	Manufacture of plaster products for construction purposes	31
C	23690	Manufacture of other articles of concrete, plaster and cement	35
C	23910	Production of abrasive products	31
C	23990	Manufacture of other non-metallic mineral products n.e.c.	43
C	24200	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel	10
C	25110	Manufacture of metal structures and parts of structures	1,987
C	25120	Manufacture of doors and windows of metal	91
C	25210	Manufacture of central heating radiators and boilers	82
C	25290	Manufacture of other tanks, reservoirs and containers of metal	77
C	25300	Manufacture of steam generators, except central heating hot water boilers	8
C	25400	Manufacture of weapons and ammunition	36
C	25500	Forging, pressing, stamping and roll-forming of metal; powder metallurgy	114
C	25720	Manufacture of locks and hinges	12
C	25730	Manufacture of tools	346
C	25920	Manufacture of light metal packaging	other
C	25930	Manufacture of wire products, chain and springs	60

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>	<b>Number of entities selected as potential packaging producers</b>
C	25940	Manufacture of fasteners and screw machine products	6
C	25990	Manufacture of other fabricated metal products n.e.c.	232
C	26110	Manufacture of electronic components	552
C	26120	Manufacture of loaded electronic boards	7
C	26200	Manufacture of computers and peripheral equipment	14
C	26301	Manufacture of telephone equipment and mobile communication equipment	39
C	26302	Manufacture of transmission equipment and transmitters	5
C	26309	Manufacture of other communication equipment	200
C	26400	Manufacture of consumer electronics	68
C	26510	Manufacture of instruments and appliances for measuring, testing and navigation	231
C	26600	Manufacture of irradiation, electromedical and electrotherapeutic equipment	10
C	27110	Manufacture of electric motors, generators and transformers	407
C	27120	Manufacture of electricity distribution and control apparatus	119
C	27200	Manufacture of batteries and accumulators	8
C	27310	Manufacture of fibre optic cables	9
C	27320	Manufacture of other electronic and electric wires and cables	39
C	27330	Manufacture of wiring devices	75
C	27400	Manufacture of electric lighting equipment	121
C	27510	Manufacture of electric domestic appliances	6
C	27520	Manufacture of non-electric domestic appliances	18
C	27900	Manufacture of other electrical equipment	1,256
C	28120	Manufacture of fluid power equipment	10
C	28130	Manufacture of other pumps and compressors	60
C	28140	Manufacture of other taps and valves	23
C	28150	Manufacture of bearings, gears, gearing and driving elements	11
C	28210	Manufacture of ovens, furnaces and furnace burners	22
C	28220	Manufacture of lifting and handling equipment	211
C	28230	Manufacture of office machinery and equipment (except computers and peripheral equipment)	143
C	28250	Manufacture of non-domestic cooling and ventilation equipment	220
C	28290	Manufacture of other general-purpose machinery n.e.c.	1,013
C	28300	Manufacture of agricultural and forestry machinery	51
C	28410	Manufacture of metal forming machinery	25
C	28490	Manufacture of other machine tools	22
C	28920	Manufacture of machinery for mining, quarrying and construction	19
C	28930	Manufacture of machinery for food, beverage and tobacco processing	26
C	28940	Manufacture of machinery for textile, apparel and leather production	3
C	28960	Manufacture of plastic and rubber machinery	11
C	28990	Manufacture of other special-purpose machinery n.e.c.	207
C	29100	Manufacture of motor vehicles	11
C	29200	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	34

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>	<b>Number of entities selected as potential packaging producers</b>
C	29310	Manufacture of electrical and electronic equipment for motor vehicles	18
C	29320	Manufacture of other parts and accessories for motor vehicles	168
C	30920	Manufacture of bicycles and invalid carriages	20
C	31010	Manufacture of office and shop furniture	95
C	31020	Manufacture of kitchen furniture	4
C	31030	Manufacture of mattresses	35
C	31090	Manufacture of other furniture	974
C	32110	Striking of coins	4
C	32120	Manufacture of jewellery and related articles	other
C	32130	Manufacture of imitation jewellery and related articles	5
C	32200	Manufacture of musical instruments	other
C	32300	Manufacture of sports goods	62
C	32400	Manufacture of games and toys	8
C	32500	Manufacture of medical and dental instruments and supplies	9
C	32990	Other manufacturing n.e.c.	846
G	45310	Wholesale trade of motor vehicle parts and accessories	224
G	45320	Retail trade of motor vehicle parts and accessories	541
G	45400	Sale, maintenance and repair of motorcycles and related parts and accessories	59
G	46210	Wholesale of grain, unmanufactured tobacco, seeds and animal feeds	184
G	46220	Wholesale of flowers and plants	31
G	46310	Wholesale of fruit and vegetables	178
G	46320	Wholesale of meat and meat products	48
G	46330	Wholesale of dairy products, eggs and edible oils and fats	35
G	46340	Wholesale of beverages	155
G	46350	Wholesale of tobacco products	19
G	46360	Wholesale of sugar and chocolate and sugar confectionery	37
G	46370	Wholesale of coffee, tea, cocoa and spices	32
G	46380	Wholesale of other food, including fish, crustaceans and molluscs	43
G	46390	Non-specialised wholesale of food, beverages and tobacco	204
G	46410	Wholesale of textiles	218
G	46420	Wholesale of clothing and footwear	144
G	46430	Wholesale of electrical household appliances	102
G	46440	Wholesale of china and glassware and cleaning materials	43
G	46450	Wholesale of perfume and cosmetics	105
G	46460	Wholesale of pharmaceutical goods	211
G	46470	Wholesale of furniture, carpets and lighting equipment	69
G	46480	Wholesale of watches and jewellery	23
G	46490	Wholesale of other household goods	294
G	46510	Wholesale of computers, computer peripheral equipment and software	226
G	46520	Wholesale of electronic and telecommunications equipment and parts	116
G	46610	Wholesale of agricultural machinery, equipment and supplies	165
G	46620	Wholesale of machine tools	41

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>	<b>Number of entities selected as potential packaging producers</b>
G	46630	Wholesale of mining, construction and civil engineering machinery	46
G	46640	Wholesale of machinery for the textile industry and of sewing and knitting machines	10
G	46650	Wholesale of office furniture	14
G	46660	Wholesale of other office machinery and equipment	40
G	46690	Wholesale of other machinery and equipment	445
G	46710	Wholesale of solid, liquid and gaseous fuels and related products	170
G	46720	Wholesale of metals and metal ores	185
G	46730	Wholesale of wood, construction materials and sanitary equipment	853
G	46740	Wholesale of hardware, plumbing and heating equipment and supplies	255
G	46750	Wholesale of chemical products	151
G	46760	Wholesale of other intermediate products	82
G	46770	Wholesale of waste and scrap	74
G	46900	Non-specialised wholesale trade	10,773
G	47110	Retail sale in non-specialised stores with food, beverages or tobacco predominating	1,408
G	47190	Other retail sale in non-specialised stores	379
G	47210	Retail sale of fruit and vegetables in specialised stores	3
G	47220	Retail sale of meat and meat products in specialised stores	297
G	47240	Retail sale of bread, cakes, flour confectionery and sugar confectionery in specialised stores	133
G	47250	Retail sale of beverages in specialised stores	177
G	47260	Retail sale of tobacco products in specialised stores	44
G	47290	Other retail sale of food in specialised stores	462
G	47300	Retail sale of automotive fuel in specialised stores	446
G	47410	Retail sale of computers, peripheral units and software in specialised stores	782
G	47420	Retail sale of telecommunications equipment in specialised stores	187
G	47430	Retail sale of audio and video equipment in specialised stores	52
G	47510	Retail sale of textiles in specialised stores	859
G	47520	Retail sale of hardware, paints and glass in specialised stores	838
G	47530	Retail sale of carpets, rugs, wall and floor coverings in specialised stores	122
G	47540	Retail sale of electrical household appliances in specialised stores	303
G	47590	Retail sale of furniture, lighting equipment and other household articles in specialised stores	887
G	47610	Retail sale of books in specialised stores	121
G	47620	Retail sale of newspapers and stationery in specialised stores	207
G	47630	Retail sale of music and video recordings in specialised stores	13
G	47640	Retail sale of sporting equipment in specialised stores	427
G	47650	Retail sale of games and toys in specialised stores	66
G	47710	Retail sale of clothing in specialised stores	504
G	47720	Retail sale of footwear and leather goods in specialised stores	202
G	47730	Dispensing chemist in specialised stores	609

<b>NACE section</b>	<b>NACE sub-class</b>	<b>Economic activity</b>	<b>Number of entities selected as potential packaging producers</b>
G	47740	Retail sale of medical and orthopaedic goods in specialised stores	164
G	47750	Retail sale of cosmetic and toilet articles in specialised stores	334
G	47760	Retail sale of flowers, plants, seeds, fertilisers, pet animals and pet food in specialised stores	824
G	47770	Retail sale of watches and jewellery in specialised stores	335
G	47789	Other retail sale of new goods in specialised stores n.e.c.	5,355
G	47790	Retail sale of second-hand goods in stores	7
G	47890	Retail sale via stalls and markets of other goods	other
G	47910	Retail sale via mail order houses or via Internet	678
G	47990	Other retail sale not in stores, stalls or markets	331
I	55100	Hotels and similar accommodation	824
I	56101	Licensed restaurants	128
I	56109	Other special food services	41
I	56210	Event catering activities	452
I	56290	Other food service activities	845
I	56300	Beverage serving activities	71
J	58110	Book publishing	196
J	58130	Publishing of newspapers	53
J	58140	Publishing of journals and periodicals	394
J	58190	Other publishing activities	19
J	59110	Motion picture, video and television programme production activities	16
J	59120	Motion picture, video and television programme post-production activities	16
N	82920	Packaging activities	24
N	82990	Other business support service activities n.e.c.	726
S	96010	Washing and (dry-)cleaning of textile and fur products	479
			<b>65,445</b>

### 5.3 ANNEX III. Estimation of amounts of packaging POM by free-riders in 2022

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
G	46900	Non-specialised wholesale trade	10,773	9.15	0.12%	118.92
G	47789	Other retail sale of new goods in specialised stores n.e.c.	5,355	5.75	0.08%	23.34
C	10890	Manufacture of other food products n.e.c.	2,475	5.54	0.07%	10.02
C	25110	Manufacture of metal structures and parts of structures	1,987	5.27	0.07%	7.28
G	47110	Retail sale in non-specialised stores with food, beverages or tobacco predominating	1,408	544.01	7.17%	54,941.48
C	27900	Manufacture of other electrical equipment	1,256	19.98	0.26%	66.11
C	10710	Manufacture of bread; manufacture of fresh pastry goods and cakes	1,091	3.41	0.04%	1.67
C	22190	Manufacture of other rubber products	1,046	13.44	0.18%	24.91
C	28290	Manufacture of other general-purpose machinery n.e.c.	1,013	20.84	0.27%	58.01
C	31090	Manufacture of other furniture	974	31.03	0.41%	123.65
C	13990	Manufacture of other textiles n.e.c.	932	2.34	0.03%	0.67
C	11070	Manufacture of soft drinks; production of mineral waters and other bottled waters	889	74.44	0.98%	649.53
G	47590	Retail sale of furniture, lighting equipment and other household articles in specialised stores	887	28.39	0.37%	94.26
G	47510	Retail sale of textiles in specialised stores	859	0.79	0.01%	0.07
G	46730	Wholesale of wood, construction materials and sanitary equipment	853	25.35	0.33%	72.28
C	32990	Other manufacturing n.e.c.	846	2.62	0.03%	0.77
I	56290	Other food service activities	845	10.21	0.13%	11.61
G	47520	Retail sale of hardware, paints and glass in specialised stores	838	63.82	0.84%	450.03
G	47760	Retail sale of flowers, plants, seeds, fertilisers, pet animals and pet food in specialised stores	824	4.81	0.06%	2.51
I	55100	Hotels and similar accommodation	824	1.32	0.02%	0.19
C	18120	Other printing	788	6.67	0.09%	4.62
G	47410	Retail sale of computers, peripheral units and software in specialised stores	782	1.17	0.02%	0.14
N	82990	Other business support service activities n.e.c.	726	3.92	0.05%	1.47

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
G	47910	Retail sale via mail order houses or via the Internet	678	35.1	0.46%	110.14
A	01410	Raising of dairy cattle	653	9.45	0.12%	7.69
C	22290	Manufacture of other plastic products	641	11.59	0.15%	11.35
G	47730	Dispensing chemist in specialised stores	609	0.41	0.01%	0.01
C	26110	Manufacture of electronic components	552	16.71	0.22%	20.32
G	45320	Retail trade of motor vehicle parts and accessories	541	3.58	0.05%	0.91
C	15200	Manufacture of footwear	520	20.38	0.27%	28.48
G	47710	Retail sale of clothing in specialised stores	504	135.91	1.79%	1227.49
S	96010	Washing and (dry-)cleaning of textile and fur products	479	0.69	0.01%	0.03
G	47290	Other retail sale of food in specialised stores	462	30.07	0.40%	55.08
I	56210	Event catering activities	452	1.24	0.02%	0.09
G	47300	Retail sale of automotive fuel in specialised stores	446	3.41	0.04%	0.68
G	46690	Wholesale of other machinery and equipment	445	11.58	0.15%	7.87
G	47640	Retail sale of sporting equipment in specialised stores	427	16.55	0.22%	15.42
C	22230	Manufacture of builders' ware of plastic	421	38.66	0.51%	82.96
A	01470	Raising of poultry	420	48.9	0.64%	132.42
C	27110	Manufacture of electric motors, generators and transformers	407	24.85	0.33%	33.14
J	58140	Publishing of journals and periodicals	394	2.35	0.03%	0.29
C	13929	Manufacture of other textile articles, except apparel	384	4.73	0.06%	1.13
G	47190	Other retail sale in non-specialised stores	379	3.42	0.05%	0.58
C	10910	Manufacture of prepared feeds for farm animals	367	10.48	0.14%	5.31
C	25730	Manufacture of tools	346	3.48	0.05%	0.55
G	47770	Retail sale of watches and jewellery in specialised stores	335	0.28	0.00%	0.00
G	47750	Retail sale of cosmetic and toilet articles in specialised stores	334	131.11	1.73%	757.01
G	47990	Other retail sale not in stores, stalls or markets	331	4.28	0.06%	0.80
C	23610	Manufacture of concrete products for construction purposes	323	62.71	0.83%	167.48
G	47540	Retail sale of electrical household appliances in specialised stores	303	42.35	0.56%	71.65



NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
G	47220	Retail sale of meat and meat products in specialised stores	297	1.91	0.03%	0.14
G	46490	Wholesale of other household goods	294	19.69	0.26%	15.03
C	10110	Processing and preserving of meat	276	12.53	0.17%	5.71
G	46740	Wholesale of hardware, plumbing and heating equipment and supplies	255	24.52	0.32%	20.21
A	01210	Growing of grapes	243	8.89	0.12%	2.53
C	25990	Manufacture of other fabricated metal products n.e.c.	232	7.75	0.10%	1.84
C	26510	Manufacture of instruments and appliances for measuring, testing and navigation	231	9.35	0.12%	2.66
C	10720	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes	230	73.92	0.97%	165.71
G	46510	Wholesale of computers, computer peripheral equipment and software	226	12.88	0.17%	4.94
G	45310	Wholesale trade of motor vehicle parts and accessories	224	21.6	0.28%	13.78
C	28250	Manufacture of non-domestic cooling and ventilation equipment	220	35.45	0.47%	36.45
G	46410	Wholesale of textiles	218	1.96	0.03%	0.11
C	28220	Manufacture of lifting and handling equipment	211	19.73	0.26%	10.83
G	46460	Wholesale of pharmaceutical goods	211	26.76	0.35%	19.92
C	28990	Manufacture of other special-purpose machinery n.e.c.	207	4.3	0.06%	0.50
G	47620	Retail sale of newspapers and stationery in specialised stores	207	0.86	0.01%	0.02
G	46390	Non-specialised wholesale of food, beverages and tobacco	204	158.91	2.10%	679.23
G	47720	Retail sale of footwear and leather goods in specialised stores	202	142.22	1.88%	538.71
C	26309	Manufacture of other communication equipment	200	19.23	0.25%	9.75
J	58110	Book publishing	196	9.21	0.12%	2.19
C	11020	Manufacture of wine from grape	192	97.87	1.29%	242.48
G	47420	Retail sale of telecommunications equipment in specialised stores	187	2.84	0.04%	0.20
G	46720	Wholesale of metals and metal ores	185	11.96	0.16%	3.49
G	46210	Wholesale of grain, unmanufactured tobacco, seeds and animal feeds	184	20.73	0.27%	10.43
G	46310	Wholesale of fruit and vegetables	178	54.48	0.72%	69.66

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
A	01240	Growing of pome fruits and stone fruits	177	2.37	0.03%	0.13
G	47250	Retail sale of beverages in specialised stores	177	24.34	0.32%	13.83
A	01110	Growing of cereals (except rice), leguminous crops and oil seeds	174	7.44	0.10%	1.27
C	10390	Other processing and preserving of fruit and vegetables	173	28.13	0.37%	18.05
G	46710	Wholesale of solid, liquid and gaseous fuels and related products	170	64.65	0.85%	93.68
C	29320	Manufacture of other parts and accessories for motor vehicles	168	87.26	1.15%	168.66
C	16210	Manufacture of veneer sheets and wood-based panels	165	14.28	0.19%	4.44
G	46610	Wholesale of agricultural machinery, equipment and supplies	165	6.06	0.08%	0.80
G	47740	Retail sale of medical and orthopaedic goods in specialised stores	164	1.71	0.02%	0.06
C	10130	Production of meat and poultry meat products	160	82.31	1.09%	142.93
G	46340	Wholesale of beverages	155	206.73	2.73%	873.42
C	14120	Manufacture of workwear	154	0.74	0.44%	0.50
C	17290	Manufacture of other articles of paper and paperboard	153	19.82	0.26%	7.92
G	46750	Wholesale of chemical products	151	29.54	0.39%	17.37
G	46420	Wholesale of clothing and footwear	144	21.76	0.29%	8.99
C	28230	Manufacture of office machinery and equipment (except computers and peripheral equipment)	143	3.6	0.05%	0.24
C	20590	Manufacture of other chemical products n.e.c.	141	6.26	0.08%	0.73
C	18140	Binding and related services	139	1.91	0.03%	0.07
C	14390	Manufacture of other knitted and crocheted apparel	136	0.27	0.00%	0.00
G	47240	Retail sale of bread, cakes, flour confectionery and sugar confectionery in specialised stores	133	1.03	0.01%	0.02
I	56101	Licensed restaurants	128	11.64	0.15%	2.29
C	20410	Manufacture of soap and detergents, cleaning and polishing preparations	126	7.31	0.10%	0.89
C	10310	Processing and preserving of potatoes	124	11.45	0.15%	2.14
G	47530	Retail sale of carpets, rugs, wall and floor coverings in specialised stores	122	5.32	0.07%	0.46

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
C	27400	Manufacture of electric lighting equipment	121	96.02	1.27%	147.09
G	47610	Retail sale of books in specialised stores	121	24.28	0.32%	9.41
C	10830	Processing of tea and coffee	120	3.52	0.05%	0.20
C	27120	Manufacture of electricity distribution and control apparatus	119	6.32	0.08%	0.63
C	10820	Manufacture of cocoa, chocolate and sugar confectionery	118	9.38	0.12%	1.37
G	46520	Wholesale of electronic and telecommunications equipment and parts	116	8.12	0.11%	1.01
C	10610	Manufacture of grain mill products	114	63.05	0.83%	59.75
C	25500	Forging, pressing, stamping and roll-forming of metal; powder metallurgy	114	47.7	0.63%	34.20
C	10850	Manufacture of prepared meals and dishes	106	4.79	0.06%	0.32
G	46450	Wholesale of perfume and cosmetics	105	7.57	0.10%	0.79
A	01500	Mixed farming	104	6.4	0.08%	0.56
G	46430	Wholesale of electrical household appliances	102	23.92	0.32%	7.69
C	31010	Manufacture of office and shop furniture	95	11.63	0.15%	1.69
C	25120	Manufacture of doors and windows of metal	91	3.19	0.04%	0.12
C	15120	Manufacture of luggage, handbags and the like, saddlery and harness	88	0.92	0.01%	0.01
C	22110	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres	86		0.00%	0.00
C	25210	Manufacture of central heating radiators and boilers	82	84.66	1.12%	77.49
G	46760	Wholesale of other intermediate products	82	16.19	0.21%	2.83
C	22210	Manufacture of plastic plates, sheets, tubes and profiles	79	21.64	0.29%	4.88
C	10520	Ice cream production	77	54.35	0.72%	29.99
C	25290	Manufacture of other tanks, reservoirs and containers of metal	77	13.03	0.17%	1.72
C	10510	Operation of dairies and cheese making	75	111.93	1.48%	123.89
C	27330	Manufacture of wiring devices	75	10.86	0.14%	1.17
G	46770	Wholesale of waste and scrap	74	0.28	0.00%	0.00
C	11050	Manufacture of beer	72	54.12	0.71%	27.81
I	56300	Beverage serving activities	71	5.35	0.07%	0.27

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
C	17210	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard	69	54.58	0.72%	27.10
G	46470	Wholesale of furniture, carpets and lighting equipment	69	13.63	0.18%	1.69
C	26400	Manufacture of consumer electronics	68	0.72	0.01%	0.00
G	47650	Retail sale of games and toys in specialised stores	66	6.95	0.09%	0.42
C	20600	Manufacture of man-made fibres	65	57.6	0.76%	28.43
C	32300	Manufacture of sports goods	62	3.82	0.05%	0.12
C	13300	Finishing of textiles	61	1.77	0.02%	0.03
C	20150	Manufacture of fertilisers and nitrogen compounds	60	177.76	2.34%	249.98
C	25930	Manufacture of wire products, chain and springs	60	4.47	0.06%	0.16
C	28130	Manufacture of other pumps and compressors	60	76.74	1.01%	46.59
G	45400	Sale, maintenance and repair of motorcycles and related parts and accessories	59	1.26	0.02%	0.01
C	20140	Manufacture of other organic basic chemicals	55	33.45	0.44%	8.11
A	01300	Plant propagation	53	7.45	0.10%	0.39
C	17120	Manufacture of paper and paperboard	53	619.19	8.16%	2679.22
J	58130	Publishing of newspapers	53	0.74	0.01%	0.00
G	47430	Retail sale of audio and video equipment in specialised stores	52	3.89	0.05%	0.10
C	28300	Manufacture of agricultural and forestry machinery	51	16.01	0.21%	1.72
C	22220	Manufacture of plastic packing goods	50	8.26	0.11%	0.45
G	46320	Wholesale of meat and meat products	48	4.94	0.07%	0.15
C	16290	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials	47	8.52	0.11%	0.45
C	17220	Manufacture of household and sanitary goods and of toilet requisites	47	10.64	0.14%	0.70
C	14110	Manufacture of leather clothes	46		0.00%	0.00
G	46630	Wholesale of mining, construction and civil engineering machinery	46	1.23	0.02%	0.01
C	23490	Manufacture of other ceramic products	44	6.42	0.08%	0.24
G	47260	Retail sale of tobacco products in specialised stores	44	1.23	0.02%	0.01

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
C	23990	Manufacture of other non-metallic mineral products n.e.c.	43	26.43	0.35%	3.96
G	46380	Wholesale of other food, including fish, crustaceans and molluscs	43	131.05	1.73%	97.37
G	46440	Wholesale of china and glassware and cleaning materials	43	18.71	0.25%	1.98
G	46620	Wholesale of machine tools	41	5.15	0.07%	0.14
I	56109	Other special food services	41	1.28	0.02%	0.01
G	46660	Wholesale of other office machinery and equipment	40	44.68	0.59%	10.53
C	10730	Manufacture of macaroni, noodles, couscous and similar farinaceous products	39	11.56	0.15%	0.69
C	26301	Manufacture of telephone equipment and mobile communication equipment	39	0.92	0.01%	0.00
C	27320	Manufacture of other electronic and electric wires and cables	39	48.65	0.64%	12.17
G	46360	Wholesale of sugar and chocolate and sugar confectionery	37	16.06	0.21%	1.26
C	25400	Manufacture of weapons and ammunition	36	3.37	0.04%	0.05
C	13910	Manufacture of knitted and crocheted fabrics	35	4.5	0.06%	0.09
C	23690	Manufacture of other articles of concrete, plaster and cement	35	37.81	0.50%	6.60
C	31030	Manufacture of mattresses	35	9.64	0.13%	0.43
G	46330	Wholesale of dairy products, eggs and edible oils and fats	35	69.19	0.91%	22.09
C	20420	Manufacture of perfumes and toilet preparations	34	44.05	0.58%	8.70
C	29200	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	34	4.71	0.06%	0.10
C	10410	Manufacture of oils and fats	33	21.14	0.28%	1.94
C	16231	Manufacture of builders' carpentry and joinery	33	4.26	0.06%	0.08
A	01610	Support activities for crop production	32	3	0.04%	0.04
G	46370	Wholesale of coffee, tea, cocoa and spices	32	13.1	0.17%	0.72
C	10840	Manufacture of condiments and seasonings	31	310.15	4.09%	393.18
C	13922	Manufacture of home accessories, except carpets	31	0.01	0.00%	0.00
C	23620	Manufacture of plaster products for construction purposes	31		0.00%	0.00
C	23910	Production of abrasive products	31	2.33	0.03%	0.02

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
G	46220	Wholesale of flowers and plants	31	4.32	0.06%	0.08
C	14140	Manufacture of underwear	30	18.94	0.25%	1.42
C	10810	Manufacture of sugar	27	82.4	1.09%	24.17
C	10320	Manufacture of fruit and vegetable juice	26	1.01	0.01%	0.00
C	28930	Manufacture of machinery for food, beverage and tobacco processing	26	14.31	0.19%	0.70
C	20300	Manufacture of paints, varnishes and similar coatings, printing ink and mastics	25	31.35	0.41%	3.24
C	28410	Manufacture of metal forming machinery	25	5.32	0.07%	0.09
N	82920	Packaging activities	24	60.33	0.80%	11.52
C	14310	Manufacture of knitted and crocheted hosiery	23	5.27	0.07%	0.08
C	16220	Manufacture of assembled parquet floors	23	1.71	0.02%	0.01
C	20120	Manufacture of dyes and pigments	23	8.1	0.11%	0.20
C	28140	Manufacture of other taps and valves	23	48.11	0.63%	7.02
G	46480	Wholesale of watches and jewellery	23	0.08	0.00%	0.00
C	28210	Manufacture of ovens, furnaces and furnace burners	22	0.55	0.01%	0.00
C	28490	Manufacture of other machine tools	22	36.18	0.48%	3.80
C	10860	Manufacture of homogenised food preparations and dietetic food	21	2	0.03%	0.01
C	13930	Manufacture of carpets and rugs	21	2.37	0.03%	0.02
C	30920	Manufacture of bicycles and invalid carriages	20	12.53	0.17%	0.41
C	28920	Manufacture of machinery for mining, quarrying and construction	19	9.8	0.13%	0.24
G	46350	Wholesale of tobacco products	19	285.61	3.77%	204.35
J	58190	Other publishing activities	19	1	0.01%	0.00
C	14190	Manufacture of other wearing apparel and accessories	18	1.1	0.01%	0.00
C	17230	Manufacture of paper stationery	18	7.69	0.10%	0.14
C	23320	Manufacture of bricks, tiles and construction products, in baked clay	18	164.54	2.17%	64.25
C	27520	Manufacture of non-electric domestic appliances	18	53.67	0.71%	6.84

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
C	29310	Manufacture of electrical and electronic equipment for motor vehicles	18	30.4	0.40%	2.19
C	16239	Manufacture of other builders' carpentry and joinery n. e. c.	16	7.34	0.10%	0.11
J	59110	Motion picture, video and television programme production activities	16	0.17	0.00%	0.00
J	59120	Motion picture, video and television programme post-production activities	16	0.73	0.01%	0.00
C	13921	Manufacture of bedding articles and household textile articles	15	16.54	0.22%	0.54
C	13940	Manufacture of cordage, rope, twine and netting	15	16.88	0.22%	0.56
C	10920	Manufacture of prepared pet foods	14	9.1	0.12%	0.15
C	26200	Manufacture of computers and peripheral equipment	14	20.16	0.27%	0.75
G	46650	Wholesale of office furniture	14	6.08	0.08%	0.07
A	01460	Raising of swine/pigs	13	14.18	0.19%	0.34
A	01630	Post-harvest crop activities	13		0.00%	0.00
C	16232	Manufacture of elements for prefabricated buildings	13	4.75	0.06%	0.04
C	18110	Printing of newspapers	13	0.44	0.01%	0.00
C	21200	Manufacture of pharmaceutical preparations	13	22.09	0.29%	0.84
G	47630	Retail sale of music and video recordings in specialised stores	13	1.49	0.02%	0.00
C	14130	Manufacture of other outerwear	12	0.95	0.01%	0.00
C	25720	Manufacture of locks and hinges	12	0.83	0.01%	0.00
A	01130	Growing of vegetables and melons, roots and tubers	11	6.31	0.08%	0.06
C	23510	Manufacture of cement	11	222.2	2.93%	71.61
C	28150	Manufacture of bearings, gears, gearing and driving elements	11	41.65	0.55%	2.52
C	28960	Manufacture of plastic and rubber machinery	11	11.43	0.15%	0.19
C	29100	Manufacture of motor vehicles	11	1.46	0.02%	0.00
C	24200	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel	10	3.29	0.04%	0.01
C	26600	Manufacture of irradiation, electromedical and electrotherapeutic equipment	10	1.62	0.02%	0.00
C	28120	Manufacture of fluid power equipment	10	24.66	0.33%	0.80

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
G	46640	Wholesale of machinery for the textile industry and of sewing and knitting machines	10	0.94	0.01%	0.00
C	11030	Manufacture of cider and other fruit wines	9	0.38	0.01%	0.00
C	11040	Manufacture of other non-distilled fermented beverages	9	26.35	0.35%	0.82
C	13960	Manufacture of other technical and industrial textiles	9	5.94	0.08%	0.04
C	23310	Manufacture of ceramic tiles and flags	9	2.6	0.03%	0.01
C	27310	Manufacture of fibre optic cables	9	10.58	0.14%	0.13
C	32500	Manufacture of medical and dental instruments and supplies	9	29.64	0.39%	1.04
C	25300	Manufacture of steam generators, except central heating hot water boilers	8	0.3	0.00%	0.00
C	27200	Manufacture of batteries and accumulators	8	0.5	0.01%	0.00
C	32400	Manufacture of games and toys	8	0.99	0.01%	0.00
C	20130	Manufacture of other inorganic basic chemicals	7	7.62	0.10%	0.05
C	23200	Manufacture of refractory products	7	76.31	1.01%	5.37
C	26120	Manufacture of loaded electronic boards	7	1.38	0.02%	0.00
G	47790	Retail sale of second-hand goods in stores	7	4.07	0.05%	0.02
C	12000	Manufacture of tobacco products	6		0.00%	0.00
C	13950	Manufacture of non-wovens and articles made from non-wovens, except apparel	6	28.52	0.38%	0.64
C	25940	Manufacture of fasteners and screw machine products	6	2.62	0.03%	0.01
C	27510	Manufacture of electric domestic appliances	6		0.00%	0.00
C	10200	Processing and preserving of fish, crustaceans and molluscs	5	6.23	0.08%	0.03
C	20200	Manufacture of pesticides and other agrochemical products	5	8.71	0.11%	0.05
C	26302	Manufacture of transmission equipment and transmitters	5	0.82	0.01%	0.00
C	32130	Manufacture of imitation jewellery and related articles	5	0.39	0.01%	0.00
C	31020	Manufacture of kitchen furniture	4	2.92	0.04%	0.00
C	32110	Striking of coins	4	41.16	0.54%	0.89
A	01620	Support activities for animal production	3		0.00%	0.00
C	11060	Manufacture of malt	3	4.1	0.05%	0.01



NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Packaging placed on the market (t)
C	28940	Manufacture of machinery for textile, apparel and leather production	3		0.00%	0.00
G	47210	Retail sale of fruit and vegetables in specialised stores	3	0.67	0.01%	0.00
A	01190	Growing of other non-perennial crops	other	37.96	0.50%	0.38
A	01491	Raising of other farm animals	other	1.48	0.02%	0.00
A	01499	Raising of other small farm animals	other		0.00%	0.00
C	10120	Processing and preserving of poultry meat	other	172.78	2.28%	7.87
C	23419	Manufacture of ceramic household and ornamental articles n.e.c.	other	0.03	0.00%	0.00
C	23520	Manufacture of lime and plaster	other	71.7	0.95%	1.36
C	25920	Manufacture of light metal packaging	other	57.49	0.76%	0.87
C	32120	Manufacture of jewellery and related articles	other	0.00	0.00%	0.00
G	47890	Retail sale via stalls and markets of other goods	other	0.61	0.01%	0.00
A	01250	Growing of other tree and bush fruits and nuts	other		0.00%	0.00
A	01450	Raising of sheep and goats	other		0.00%	0.00
C	10420	Manufacture of margarine and similar edible fats	other		0.00%	0.00
C	20520	Manufacture of glues	other	2.39	0.03%	0.00
C	20530	Manufacture of essential oils	other	5.79	0.08%	0.00
C	21100	Manufacture of basic pharmaceutical products	other	1.03	0.01%	0.00
C	32200	Manufacture of musical instruments	other	0.01	0.00%	0.00
<b>Total</b>			<b>65,445</b>			<b>67,190.07</b>

## 5.4 ANNEX IV. Estimation of amounts of plastic packaging POM by free-riders in 2022

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Plastic packaging placed on the market (t)
G	46900	Non-specialised wholesale trade	10,773	9.49	2.08%	2,131.27
G	47789	Other retail sale of new goods in specialised stores n.e.c.	5,355	0.44	0.10%	2.28
C	10890	Manufacture of other food products n.e.c.	2,475	8.17	1.79%	362.90
G	47110	Retail sale in non-specialised stores with food, beverages or tobacco predominating	1,408	0.18	0.04%	0.10
C	27900	Manufacture of other electrical equipment	1,256	0.14	0.03%	0.05
C	10710	Manufacture of bread; manufacture of fresh pastry goods and cakes	1,091	5.35	1.18%	68.60
C	22190	Manufacture of other rubber products	1,046	2.74	0.60%	17.25
C	28290	Manufacture of other general-purpose machinery n.e.c.	1,013	0.31	0.07%	0.21
G	47510	Retail sale of textiles in specialised stores	859	0.03	0.01%	0.00
G	46730	Wholesale of wood, construction materials and sanitary equipment	853	1.64	0.36%	5.04
C	32990	Other manufacturing n.e.c.	846	1.62	0.36%	4.88
G	47520	Retail sale of hardware, paints and glass in specialised stores	838	17.27	3.79%	549.03
I	55100	Hotels and similar accommodation	824	0.17	0.04%	0.05
C	18120	Other printing	788	0.27	0.06%	0.13
G	47410	Retail sale of computers, peripheral units and software in specialised stores	782	0.65	0.14%	0.73
N	82990	Other business support service activities n.e.c.	726	0	0.00%	0.00
G	47910	Retail sale via mail order houses or via the Internet	678	0.27	0.06%	0.11
C	22290	Manufacture of other plastic products	641	1.23	0.27%	2.13
G	47730	Dispensing chemist in specialised stores	609	0.01	0.00%	0.00
C	26110	Manufacture of electronic components	552	0	0.00%	0.00
I	56210	Event catering activities	452	0	0.00%	0.00
G	47300	Retail sale of automotive fuel in specialised stores	446	0.02	0.00%	0.00
G	46690	Wholesale of other machinery and equipment	445	0.13	0.03%	0.02
G	47640	Retail sale of sporting equipment in specialised stores	427	0	0.00%	0.00
C	22230	Manufacture of builders' ware of plastic	421	2.17	0.48%	4.35
J	58140	Publishing of journals and periodicals	394	3.1	0.68%	8.32
C	13929	Manufacture of other textile articles, except apparel	384	3.95	0.87%	13.16
G	47190	Other retail sale in non-specialised stores	379	0.3	0.07%	0.07
C	10910	Manufacture of prepared feeds for farm animals	367	0.01	0.00%	0.00
G	47770	Retail sale of watches and jewellery in specialised stores	335	0.13	0.03%	0.01

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Plastic packaging placed on the market (t)
G	47750	Retail sale of cosmetic and toilet articles in specialised stores	334	1.06	0.23%	0.82
G	47990	Other retail sale not in stores, stalls or markets	331	0.28	0.06%	0.06
G	47540	Retail sale of electrical household appliances in specialised stores	303	2.58	0.57%	4.43
G	47220	Retail sale of meat and meat products in specialised stores	297	0.36	0.08%	0.08
G	46490	Wholesale of other household goods	294	0.13	0.03%	0.01
G	46740	Wholesale of hardware, plumbing and heating equipment and supplies	255	0.08	0.02%	0.00
C	25990	Manufacture of other fabricated metal products n.e.c.	232	0.45	0.10%	0.10
C	26510	Manufacture of instruments and appliances for measuring, testing and navigation	231	0.38	0.08%	0.07
C	10720	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes	230	0.01	0.00%	0.00
G	46510	Wholesale of computers, computer peripheral equipment and software	226	0.02	0.00%	0.00
G	45310	Wholesale trade of motor vehicle parts and accessories	224	1.05	0.23%	0.54
C	28250	Manufacture of non-domestic cooling and ventilation equipment	220	0.02	0.00%	0.00
G	46410	Wholesale of textiles	218	0.03	0.01%	0.00
C	28220	Manufacture of lifting and handling equipment	211	0.03	0.01%	0.00
G	46460	Wholesale of pharmaceutical goods	211	3.03	0.67%	4.26
G	47620	Retail sale of newspapers and stationery in specialised stores	207	35.69	7.84%	579.21
G	46390	Non-specialised wholesale of food, beverages and tobacco	204	1.37	0.30%	0.84
C	11020	Manufacture of wine from grape	192	1.66	0.36%	1.16
G	46210	Wholesale of grain, unmanufactured tobacco, seeds and animal feeds	184	0.11	0.02%	0.00
G	47250	Retail sale of beverages in specialised stores	177	0.18	0.04%	0.01
C	10390	Other processing and preserving of fruit and vegetables	173	16.19	3.56%	99.61
G	46610	Wholesale of agricultural machinery, equipment and supplies	165	0	0.00%	0.00
G	47740	Retail sale of medical and orthopaedic goods in specialised stores	164	0.01	0.00%	0.00
G	46340	Wholesale of beverages	155	0.12	0.03%	0.00
G	46750	Wholesale of chemical products	151	6.12	1.34%	12.42
G	46420	Wholesale of clothing and footwear	144	0.36	0.08%	0.04
C	28230	Manufacture of office machinery and equipment (except computers and peripheral equipment)	143	0.17	0.04%	0.01
I	56101	Licensed restaurants	128	0.28	0.06%	0.02

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Plastic packaging placed on the market (t)
C	20410	Manufacture of soap and detergents, cleaning and polishing preparations	126	225.36	49.50%	14057.02
G	47610	Retail sale of books in specialised stores	121	0	0.00%	0.00
C	27120	Manufacture of electricity distribution and control apparatus	119	0	0.00%	0.00
C	10820	Manufacture of cocoa, chocolate and sugar confectionery	118	0.01	0.00%	0.00
G	46520	Wholesale of electronic and telecommunications equipment and parts	116	0.01	0.00%	0.00
G	46450	Wholesale of perfume and cosmetics	105	1.34	0.29%	0.41
G	46430	Wholesale of electrical household appliances	102	2.67	0.59%	1.60
C	25210	Manufacture of central heating radiators and boilers	82	2.09	0.46%	0.79
G	46760	Wholesale of other intermediate products	82	0.23	0.05%	0.01
C	22210	Manufacture of plastic plates, sheets, tubes and profiles	79	3.74	0.82%	2.43
C	11050	Manufacture of beer	72	0.06	0.01%	0.00
I	56300	Beverage serving activities	71	0.19	0.04%	0.01
C	26400	Manufacture of consumer electronics	68	0.04	0.01%	0.00
C	20600	Manufacture of man-made fibres	65	1.87	0.41%	0.50
G	45400	Sale, maintenance and repair of motorcycles and related parts and accessories	59	0.27	0.06%	0.01
C	20140	Manufacture of other organic basic chemicals	55	2.02	0.44%	0.49
G	47430	Retail sale of audio and video equipment in specialised stores	52	0.03	0.01%	0.00
G	46630	Wholesale of mining, construction and civil engineering machinery	46	4.42	0.97%	1.97
G	46380	Wholesale of other food, including fish, crustaceans and molluscs	43	1.33	0.29%	0.17
G	46620	Wholesale of machine tools	41	0.44	0.10%	0.02
G	46370	Wholesale of coffee, tea, cocoa and spices	32	0.07	0.02%	0.00
C	28930	Manufacture of machinery for food, beverage and tobacco processing	26	0.01	0.00%	0.00
N	82920	Packaging activities	24	0.46	0.10%	0.01
C	20120	Manufacture of dyes and pigments	23	2.13	0.47%	0.23
C	28920	Manufacture of machinery for mining, quarrying and construction	19	0.05	0.01%	0.00
J	58190	Other publishing activities	19	0	0.00%	0.00
C	23510	Manufacture of cement	11	47.45	10.42%	54.40
G	46640	Wholesale of machinery for the textile industry and of sewing and knitting machines	10	0.09	0.02%	0.00
C	13960	Manufacture of other technical and industrial textiles	9	1.02	0.22%	0.02
C	32500	Manufacture of medical and dental instruments and supplies	9	0.12	0.03%	0.00
C	23200	Manufacture of refractory products	7	23.94	5.26%	8.81
C	26302	Manufacture of transmission equipment and transmitters	5	0.02	0.00%	0.00

NACE section	NACE sub-class	Economic activity	Number of entities selected as potential packaging producers	Placed on the market (t) - average for 1 packaging producer	Placed on the market (% share)	Plastic packaging placed on the market (t)
C	21100	Manufacture of basic pharmaceutical products	other	2.19	0.48%	0.01
Total			45,284			<b>18,003.33</b>