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CCS Z01



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 42550-2023

**Resource utilization of agricultural wastes - Disposal and
recycling of packaging waste for agriculture production means**

农业废弃物资源化利用 农业生产资料包装废弃物处置与回收利用

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Foreword

This document was issued on 23 May 2023 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 September 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

1 Scope

GB/T 42550-2023 deals with the containers that agricultural inputs arrive in - the pesticide bottles, the fertiliser bags, the seed and veterinary medicine packaging left in the field after use. It is a waste stream with an awkward characteristic: the empty container is contaminated with the very substance it carried, so a discarded pesticide bottle is a point source of contamination in the field or the watercourse it ends up in, and the volumes are large and dispersed across millions of individual farms rather than concentrated where waste systems already reach. This document specifies the requirements for the classification of packaging waste from agricultural production inputs and the basic principles governing it, and then for collection, storage, transport, resource utilisation and sanitary treatment, together with the requirements for the protection of the people handling

it and for the information management that lets a container be tracked from the farm to its disposal. Under ICS 13.020.01 and CCS Z01, it is written for agricultural authorities and rural waste programmes, for the manufacturers and distributors of agricultural inputs who are increasingly expected to take their packaging back, and for the recyclers who process it.

This document specifies the requirements for the classification, basic principles, collection, storage, transportation, resource utilization, sanitation treatment, personnel protection and information management of packaging waste of agricultural production means.

This document applies to the recycling, utilization, and disposal of pesticides, veterinary drugs, fertilizers, feed, seeds, packaging waste of agricultural machinery and implements, and waste mulching film.

2 Normative references

The following documents contain the provisions which, through normative reference in this document, constitute the essential provisions of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments) is applicable to this document.

GB 3796 General rule for packing of pesticides

GB 5085.7 Identification standards for hazardous waste - General rules

GB 15562.2 Graphical signs for environmental protection - Solid waste storage (disposal) site

GB/T 16716.1 Packaging and the environment - Part 1: General rules

GB/T 16716.4 Packaging and the environment - Part 4: Material recycling

GB 18484 Standard for pollution control on hazardous waste incineration

GB 18485 Standard for pollution control on the municipal solid waste incineration

GB 18598 Standard for pollution control on the hazardous waste landfill

GB/T 22529 Management code for discarded wooden recycling and utilization

GB/T 25175 Technical requirements for collection and recycling of bulky waste

GB 34330 Identification standards for solid wastes - General rules

GB/T 36195 Technical specification for sanitation treatment of livestock and poultry manure

GB/T 39171 Technical specification for waste plastics recycling

GB/T 39196 Technical specification for waste glass recycling

GB 50869 Technical code for municipal solid waste sanitary landfill

HJ/T 364 Technical specification for pollution control of plastic waste

HJ 2042 General specifications of engineering and technology for hazardous waste disposal

SB/T 11110 Technological specifications of scrap paper-plastic-aluminum composite package collection and sorting

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 agricultural production means

Pesticides, veterinary drugs, fertilizers, feed, seeds, mulching film, agricultural machinery and implements, etc. required for agricultural production.

[Source: GB/T 37680-2019, 3.1, modified]

3.2 Packaging waste of agricultural production means

After used for agricultural production means, discarded solid packaging containers, materials, or components that are in direct contact with agricultural production means or contain residues of contents.

NOTE: Usually, bottles, cans, barrels, bags, waste mulching film, etc. are included.

3.3 recovery

Under the conditions of not endangering personal safety and not polluting the environment, the recycled packaging or packaging waste is classified and treated in different ways, including material recycling and regeneration, energy recycling and

5.4 The residues contained in the packaging waste of agricultural production means shall be removed. The removal process shall minimize the amount of newly generated

waste.

5.5 Centralized recycling stations (points), resource utilization units, and hazardous waste license holders shall establish management accounts for packaging waste of agricultural production means to manage and utilize information such as the quantity, weight, source, recycling, utilization, and disposal of packaging waste of agricultural production means.

5.6 The packaging waste and residues of agricultural production means shall be identified according to the Directory of National Hazardous Wastes, GB 5085.7, and GB 34330. Those that are hazardous wastes shall be handled by units with relevant qualifications, and those that are not hazardous wastes shall be handled according to relevant regulations. The packaging waste of agricultural production means and its residues listed in the appendix of the Directory of National Hazardous Wastes as hazardous waste shall be exempted in corresponding exemption links according to the provisions of the exemption content.

5.7 Between producers, operators, and users of agricultural production means, various mechanism models such as the deposit refund system and third-party recycling can be adopted to negotiate and determine the specific implementation methods of the recycling and disposal obligations of packaging waste of agricultural production means.

6 Collection

6.1 Agricultural production means production enterprises, agricultural production means operators, large-scale planting and breeding bases, agricultural parks, large users of agricultural production means, farmers' professional cooperatives and administrative villages (groups) shall arrange and build recycling stations (point) for packaging waste of agricultural production means, which shall be away from heat, water and living areas.

6.2 During the use of pesticides and veterinary drugs, users shall make full use of the contents and remove residues through repeated washing, etc. Measures shall be taken for sanitation treatment of washing wastewater and wiping paper.

6.3 Users of agricultural production means should collect packaging waste of