

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Technical specification for pollution control of plastic waste (English Translation)

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1 Scope

This Standard specifies the technical requirements for pollution control in the process of plastic waste generation, collection, transportation, storage, pretreatment, recycling and disposal.

This Standard is applicable to pollution control and environmental management in the process of plastic waste generation, collection, transportation, storage, pretreatment, recycling and disposal; and can be used as the technical basis for environmental impact assessment, design of environmental protection facility, environmental protection acceptance of completion, pollution discharge permit management, and clean production audit for the plastic waste recycling and disposal.

This Standard does not apply to degradable plastic wastes.

2 Normative References

The following documents or clauses thereof are quoted in this Standard. For the dated documents, only the versions with the dates indicated are applicable to this Standard. For the undated documents, only the latest version (including all the amendments) is applicable to this

Standard.

GB 5085.7 Identification standards for hazardous wastes - General specifications

GB 12348 Emission Standard for Industrial Enterprises Noise at Boundary

GB 14554 Emission Standards for Odor Pollutants

GB 15562.2 Graphical signs for environmental protector solid waste storage (disposal) site

GB 16297 Comprehensive emission standard of air pollutants

GB 16889 Standard for pollution control on the landfill site for domestic waste

GB/T 19001 Quality management systems - Requirements

GB/T 24001 Environmental management systems - Requirements with guidance for use

GB 31572 Emission standard of pollutants for synthetic resin industry

GB 34330 Identification standards for solid wastes - General rules

The process of using chemical methods to convert plastics waste into resin monomers, oligomers, pyrolysis products or synthesis gas.

4 General Requirements

4.1

The green design of plastic products shall be strengthened to facilitate reuse and disposal.

4.2

It should select a reasonable and feasible technical route for the utilization and disposal of plastic waste in accordance with the sequence of reuse, recycling and disposal based on the principle of improving resource utilization and reducing environmental impact.

4.3

The organizations, other producers and operators involved in the generation, collection, transportation, storage, utilization, and disposal of plastic waste shall take measures to prevent scattering, loss, leakage, or other environmental pollution according to the generated pollutants;

and implement relevant national and local emission standards.

4.4 The enterprises involved generation, collection, storage, pretreatment and recycling of

plastic waste should be divided into separate storage sites. Different types of plastic waste should be stored separately; and set identification according to the requirements of GB 15562.2.

4.5 The pretreatment and recycling of halogen-containing plastic wastes should be separated from other plastic wastes.

4.6 Enterprises that collect, recycle, and dispose of plastic waste shall establish plastic waste management accounts, including the source, type, quantity, and whereabouts of plastic waste;

and the relevant accounts shall be kept for at least 3 years.

4.7 The plastic waste that are hazardous wastes shall be managed, utilized and disposed of as hazardous wastes.

4.8 The generation, collection, recycling and disposal of plastic waste shall not only meet the relevant requirements of ecological environment protection, but also meet the relevant requirements of national regulations and standards on production safety, occupational health, transportation, fire protection, etc.

5.1 Requirements for pollution control of plastic waste from industrial sources

Enterprises generating plastic waste should classify, collect and store leftovers, scraps, defective products, plastic waste products, plastic waste packaging, etc. according to material characteristics and recycling and disposal methods; and establish plastic waste management ledgers, including type, quantity, whereabouts, etc. of plastic waste; and relevant ledgers shall be kept for at least 3 years.

5.2 Requirements for pollution control of plastic waste from domestic sources

5.2.1

The recyclables of the plastic waste shall be placed in recyclable waste bins or special recycling facilities in accordance with local household waste classification management requirements; or handed over to renewable resource recycling companies.

5.2.2

Hazardous waste such as plastic waste that is put into hazardous waste collection facilities for centralized collection shall be handed over to qualified organizations for utilization and disposal.

5.3 Requirements for pollution control of plastic waste from agricultural sources

5.3.1

The discarded non-biodegradable plastic agricultural film shall be recycled and not be discarded, buried or burned in the open.

5.3.2 The discarded non-biodegradable fishing nets, fishing gear, net cages and other plastic

waste shall be recycled and not be discarded, buried or burned in the open.

5.3.3 The discarded fertilizer packaging bags (barrels or bottles), and other plastic wastes shall be recycled and not be discarded, buried or burned in the open.

5.4 Requirements for pollution control of plastic waste from recyclables of medical

institutions

5.4.1

Recyclables such as waste plastics of medical institutions shall be placed in special containers; and mixing with medical waste is strictly prohibited.

5.4.2

The collection containers and packages of waste plastics in the recyclables of medical institutions shall be marked clearly.

5.4.3 The collection, handling, temporary storage, and transfer of plastic waste in recyclables

of medical institutions shall be carried out separately from medical waste.

6 Requirements for Pollution Control in Collection and

Transportation

6.1 Collection Requirements

6.1.1

Plastic waste collection enterprises shall refer to GB/T 37547 to classify and collect plastic waste according to the source, characteristics and use process of plastic waste.

6.1.2

Scattering shall be avoided during the collection of plastic waste; and the residual liquid shall not be dumped and cleaned at will.

6.2 Transportation requirements

corresponding wastewater collection and treatment facilities shall be equipped; and the cleaning wastewater shall be recycled after treatment.

7.5 Drying requirements

Closed circulation drying equipment should be selected. The drying link shall be equipped with waste gas collection and treatment facilities to prevent secondary pollution.