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# HJ

NATIONAL ENVIRONMENTAL PROTECTION STANDARD  
OF THE PEOPLE'S REPUBLIC OF CHINA

## HJ 2025-2012

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**Technical specifications for collection, storage,  
transportation of hazardous waste**

危险废物收集 贮存 运输技术规范

**Issued on: December 24, 2012**

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## Foreword

For the purpose of implementing “Environmental Protection Law of the People’s Republic of China” and “Law of the People’s Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste”, regulating the collection, storage, and transportation process of hazardous waste, protecting the environment, and safeguarding human health, this Standard is developed.

This Standard specifies the technical requirements for the collection, storage, and transportation process of hazardous waste.

This Standard is a guiding standard.

This Standard is first issued.

This Standard was developed by Department of Science, Technology and Standards of Ministry of Environmental Protection.

Main drafting organizations of this Standard: Shenyang Academy of Environmental Sciences (National Environmental Protection Hazardous Waste Disposal Engineering Technology (Shenyang) Center), Institute of High Energy Physics Chinese Academy of Sciences.

This Standard was approved by the Ministry of Environmental Protection on December 24, 2012.

This Standard is implemented since March 1, 2013.

This Standard is interpreted by the Ministry of Environmental Protection.

# **Technical specifications for collection, storage, transportation of hazardous waste**

## **1 Scope of application**

This Standard specifies the technical requirements for the collection, storage, and transportation process of hazardous waste.

This Standard applies to the collection, storage, and transportation of hazardous wastes from hazardous waste generating organizations and operating organizations.

## **2 Normative references**

The contents of this Standard refer to the provisions in the following documents. For the undated references, the valid edition applies to this Standard.

GB190 Packing symbol of dangerous goods

GB5085.1-7 Identification standards for hazardous wastes

GB6944 Classification and code of dangerous goods

GB8978 Integrated wastewater discharge standard

GB12463 General specifications for transport packages of dangerous goods

GB13015 Standard for pollution control on Polychlorinated Biphenyls (PCBs)-contaminated wastes

GB13392 The vehicle mark for road transportation dangerous goods

GB15603 Rule for storage of chemical dangers

GB15562.2 Graphical signs for environmental protection - Solid waste storage (disposal) site

GB16297 Integrated emission standard of air pollutants

GB18597 Standard for pollution control on hazardous waste storage

GB19217 Technical standard for medical waste transport vehicle

GBZ1 Hygienic standards for the design of industrial enterprises

GBZ2 Occupational Exposure Limit for Hazardous Agents in the Workplace

HJ/T177 Technical specifications for centralized Incineration facility construction on medical waste

HJ/T228 Technical specification for chemical disinfection centralized treatment engineering on medical waste (on trial)

HJ/T229 Technical specification for microwave disinfection centralized treatment engineering on medical waste (on trial)

HJ/T276 Technical specifications for steam-based centralized treatment engineering in medical waste (on trial)

HJ/T298 Technical specifications on identification for hazardous waste

HJ421 Standard of packaging bags, containers and warning symbols specific to medical waste

HJ519 Technical specifications of pollution control for treatment of Lead-acid Battery

JT617 The regulation of automobile transportation of dangerous goods

JT618 Rules of transportation, loading and unloading of dangerous goods by automobile

“Regulations on the Control over Safety of Dangerous Chemicals” (Decree No. 519 of the State Council, 2011)

“The Measures for the Administration of Permit for Operation of Dangerous Wastes” (Decree No. 408 of the State Council, 2004)

“Management Regulation on Hazardous Wastes Manifests” (Decree No. 5 of the Ministry of Environmental Protection, 1999)

“Technical Codes of Medical Wastes Centralized Disposal” (No. 206 [2003], issued by the Ministry of Environmental Protection)

“Measures for the Prevention and Control of Environmental Pollution by Discarded Dangerous Chemicals” (Decree No. 27 of the Ministry of Environmental Protection, 2005)

“Measures for Information Reporting on Emergent Environmental Incident of Environmental Protection Administrative Authorities (Trial)” (No. 50 [2006],

generating organizations themselves shall, in accordance with the relevant national management regulations, establish and improve the rules and regulations and operating procedures, to ensure the safety and reliability of this process.

**4.2** The transfer process of hazardous waste shall be carried out in accordance with “Management Regulation on Hazardous Wastes Manifests”.

**4.3** The organization for collection, storage, and transportation of hazardous waste shall establish a standardized training system for management and technical personnel and conduct regular training for management and technical personnel. The training content shall at least include requirements for identification of hazardous waste, administration of permit for operation of hazardous waste, management of hazardous wastes manifests, packaging and identification of hazardous waste, requirements for transportation of hazardous waste, and emergency methods for hazardous waste accidents, etc.

**4.4** The organization for collection, storage, and transportation of hazardous waste shall prepare an emergency plan. The preparation of the emergency plan may refer to “Guidelines for the Preparation of Emergency Plans for Hazardous Waste Operating Organizations”. The contents related to transportation shall also comply with the relevant provisions of the competent department of transportation administration. For accident-prone links during the collection, storage, and transportation of hazardous waste, it shall regularly organize emergency drills.

**4.5** In the event of an accident during the collection, storage, and transportation of hazardous waste, the organization for the collection, storage, and transportation and relevant departments shall, according to the degree of risk, take the following measures:

- (1) SET up an accident warning line; INITIATE an emergency plan; REPORT according to the requirements of “Measures for Information Reporting on Emergent Environmental Incident of Environmental Protection Administrative Authorities (Trial)” (No. 50 [2006], issued by the Ministry of Environmental Protection).
- (2) If the hazardous waste causing the accident is highly toxic, flammable, explosive, or highly contagious, it shall evacuate the crowd immediately and request support from relevant departments such as environmental protection, fire protection, medical care, and public security.
- (3) It shall clean and repair environmental media such as soil and water bodies contaminated at the accident site accordingly.
- (4) All wastes generated during the cleaning process shall be managed and

including at least the scope of application, operating procedures and methods, dedicated equipment and tools, transfer and handover, safety guarantee and emergency protection, etc.

**5.4** Personnel for hazardous waste collection and transfer operations shall, according to the needs of their work, be equipped with the necessary personal protective equipment such as gloves, goggles, protective clothing, gas masks or masks, etc.

**5.5** In the process of collecting and transferring hazardous waste, it shall take appropriate safety protection and pollution prevention measures, including explosion-proof, fire prevention, anti-poisoning, anti-infection, anti-leakage, anti-flying, rain-proof, or other measures to prevent environmental pollution.

**5.6** When collecting hazardous waste, the packaging form shall be determined according to the type, quantity, hazardous characteristics, physical form, and transportation requirements, etc. of the hazardous waste. The specific packaging shall meet the following requirements:

- (1) The packaging material shall be compatible with hazardous waste. Materials such as steel, aluminum, plastic may be selected according to the waste characteristics.
- (2) Wastes of similar nature may be collected in the same container. Hazardous wastes of incompatible nature shall not be mixed-packaged.
- (3) Hazardous waste packaging shall be able to effectively cut off the migration and diffusion of hazardous waste and meet the requirements of anti-seepage and anti-leakage.
- (4) The packaged hazardous waste shall be set with the corresponding label. The label information shall be completed and informative.
- (5) If the packaging bag or packaging container containing hazardous waste is damaged, it shall be managed and disposed of as hazardous waste.
- (6) Hazardous waste shall also be transported and packaged in accordance with the relevant requirements of GB12463.

**5.6** The collection of polychlorinated biphenyls-contaminated wastes, in addition to complying with this Standard, shall also comply with the pollution control requirements of GB13015.

**5.7** The collection of hazardous waste shall meet the following requirements:

- (1) It shall, according to actual situations such as the collection equipment,

with “Regulations for radioactive waste management” (GB14500).

## **6 Storage of hazardous waste**

**6.1** Storage of hazardous waste may be divided into internal storage of generating organization, transit storage, and centralized storage. The corresponding storage facilities are facilities of hazardous waste generating organizations for temporary storage; facilities of organizations with a permit for collection operation of hazardous waste for temporary storage of waste mineral oil and waste nickel-cadmium batteries; storage facilities configured by hazardous waste operating organizations.

**6.2** The site selection, design, construction, and operation management of hazardous waste storage facilities shall meet the relevant requirements of GB18597, GBZ1, and GBZ2.

**6.3** Hazardous waste storage facilities shall be equipped with communication equipment, lighting facilities, and fire-fighting facilities.

**6.4** When storing hazardous waste, partition storage shall be carried out according to the type and characteristics of hazardous waste. The retaining wall spacing should be set between each storage area; rain-proof, fire prevention, lightning protection, and anti-flying dust devices shall also be installed.

**6.5** Storage of flammable and explosive hazardous waste shall be equipped with organic gas alarm, fire alarm installation, and grounding device for guiding static electricity.

**6.6** The storage of discarded hazardous chemicals shall meet the requirements of GB15603, “Regulations on the Control over Safety of Dangerous Chemicals”, and “Measures for the Prevention and Control of Environmental Pollution by Discarded Dangerous Chemicals”. Storage of discarded highly-toxic chemicals shall also fully consider the anti-theft requirements. USE double-key closed management, with a 24-hour watch by specially-assigned person.

**6.7** The storage period of hazardous waste shall comply with the relevant provisions of “Law of the People’s Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste”.

**6.8** The hazardous waste storage organization shall establish a duty security system for the storage of hazardous waste. The contents of hazardous waste in-out stock transfer records shall be implemented with reference to Appendix C of this Standard.

**6.9** Hazardous waste storage facilities shall, based on the type and

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