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

HJ 421-2008

**Standard of packaging bags, containers and warning symbols
specific to medical waste
(English Translation)**

Issued on: February 27, 2008

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Foreword

To combat environmental pollution in the medical waste collection, temporary storage, transport and disposal, to prevent the spread of disease, Protection of human health, according to the "Medical Waste Management Regulations", the development of this standard.

This standard specifies the special medical waste bags, tool boxes and totes (barrels) of technical requirements and the corresponding test Test methods and inspection rules, and provides medical waste warning signs.

This standard since the date instead of "special medical waste packaging, container standards and provisions of Warning Labels" (UNCED implementation [2003] No. 188). And "special medical waste packaging, container standards and provisions of Warning Labels" (UNCED [2003] No. 188) Compared main changes are as follows.

- Chapter 1 of this standard defines the scope of the standard, Chapter 2, an increase of normative references, Chapter 3 by Plus the related terms and definitions;
- Bags are no longer set specific technical requirements for the thickness of the bag;
- Physical and mechanical properties of the technical requirements of the bag added drop test and leak test indicators;
- Supplement increased bags, test methods and inspection rules totes physical and mechanical properties of detection.

In accordance with the law, this standard shall be enforceable.

This standard was proposed by the State Environmental Protection Administration of Science, Technology and the Ministry of Health, Medical Administration.

Drafted. SEPA Environmental Standards Institute.

This standard SEPA February 27, 2008 for approval.

This standard since April 1, 2008 implementation.

This standard by the State Environmental Protection Administration in conjunction with the Ministry of Health explained.

Special medical waste bags, standard containers and warning signs

1 Scope

This standard specifies the special medical waste bags, tool boxes and totes (barrels) of technical requirements and corresponding test Methods and inspection rules, and provides medical waste warning signs.

This standard applies to special medical waste bags, container manufacturers, transport units and medical waste disposal units.

2 Normative references

The standard content of the following documents cited in the articles. For undated references, the effective version applies to this standard.

GB/T 3181 standard paint colors GB/T 4456 packaging, polyethylene blown film GB/T 4857.3 Basic tests for transport packages Stacking static load test method GB/T 4857.5 Transport packages - Basic test drop test method GB/T 5737 food plastic containers GB/T 9639 plastic film and sheet impact resistance test method for fat free fall method GB/T 13022 Test method for tensile properties of plastic film GB/T 18893 retail bags QB/T 2358 plastic film packaging bag heat sealing strength test method

3 Terms and Definitions

The following terms and definitions apply to this standard.

Bag packaging bag

In addition to injury for containing waste primary packaging of medical waste, and meet certain performance requirements seepage and tear strength Soft pocket.

Sharps box tool box

For holding injury medical waste Disposable dedicated rigid containers.

Turnover Box (barrels) transfer container/barrel in the medical waste transportation process, primary packaging for containing medical waste through a dedicated rigid containers.

Medical waste medical waste Has directly or indirectly generate infectious medical and

health institutions in health care, prevention, health care and other related activities, Toxic and other hazardous waste.

4 Bags Technical Requirements

4.1

bags under normal circumstances, there should not leak, rupture and perforation.

4.2

high-temperature thermal treatment technique disposal of medical waste bags should not be used PVC material.

4.3

bags volume size should be moderate, easy to operate, with turnover me (barrels) transport.

4.4

Medical waste bags color is yellow, the color should be consistent with GB/T 3181 requirements in Y06, obviously at the bag it should print warning signs and warnings shown in Figure 1.

4.5

bags appearance. a substantially planar surface, no wrinkles, stains and impurities, no scratches, bubbles, craters, pinholes in and other defects.

4.6

bags physical and mechanical properties shall comply with the requirements of Table 1.

Table 1

Item Index

Tensile strength (vertical and horizontal) ≥ 20 Mpa Elongation at break (vertical and horizontal) $\geq 250\%$ Shock drop fat mass 130g Performance drop no rupture, no leakage no leakage of water leakage Heat seal strength $\geq 10\text{N}/15\text{mm}$

5 Tool box Technical Requirements

5.1

overall tool box is a hard material, closed and anti-piercing, to ensure that under normal circumstances, the tool box was not dressed Salou, and tool boxes, once sealed, can not be opened again without destruction.

5.2

high-temperature thermal treatment technology of waste disposal of damage, tool boxes should not be used PVC material.

5.3

Tool box overall color is yellow, the color should be consistent with GB/T 3181 in Y06 requirements. Tool box should be printed on the side of a prominent place Drawing shown warning signs, warning the "WARNING! Damaging waste." 5.4 full tool box containing an amount of free height from 1.2m drops to concrete, three consecutive times, will not be broken, stabbed Wear and so on.

5.5

Tool box size specifications according to user requirements.

6 Turnover box (bucket) Technical Requirements

6.1

overall turnover box (barrel) should prevent liquid leakage, it should be easy to clean and disinfect.

6.2

totes (barrels) as a whole is pale yellow, the color should be consistent with GB/T 3181 in Y06 requirements. Box side or barrels are obvious Office should be printed (spray) drawing warning signs and warnings shown.

6.3 Totes appearance requirements

6.3.1

totes whole assembly sealed box with the lid securely fastened, not fastened after the separation.

6.3.2

surface smooth, crack-free complete loss, no significant depression, burr-free edges and handle.

Bottom and top 6.3.3 totes are with alveolar, non-slip function.

6.4 totes classified according to their dimensions, the recommended dimensions are shown in Table 2.

Table 2

Unit. mm

length Width Height