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Waste Battery Prevention & Management Instructions

Waste batteries contain heavy metals and harmful chemicals such as lead, mercury, cadmium, lithium, electrolytes, etc. If discarded indiscriminately, they can contaminate soil, water sources, and even pose a threat to human health through the food chain. The following is an explanation of environmental protection measures for waste batteries:

1. Classification collection

Rechargeable batteries (such as nickel cadmium, nickel hydrogen, lithium-ion batteries): containing heavy metals or harmful substances, must be recycled.

2. Recycling channels

Community recycling points: Some communities have dedicated recycling bins for waste batteries. Electronic waste treatment center: You can inquire about legitimate recycling institutions through the local environmental protection department.

3. Safe storage and transportation

Anti short circuit: The battery electrodes are taped together to prevent friction and fire.

Leak prevention: Place waste batteries in a sealed container (such as a plastic box) to prevent electrolyte leakage. Avoid high temperature and humidity: Store in a cool and dry place, away from flammable materials.

4. Professional processing techniques

Physical sorting: Separating metals and plastics through crushing and magnetic separation.

Chemical extraction: Recovery of metals such as lead, cadmium, lithium, etc. using acid leaching method. High temperature melting: Burning organic matter and recovering heavy metals (strict pollution control is required). Harmless landfill: Conduct anti-seepage treatment on waste residues that cannot be recycled.

5. Prohibited behaviors

Burning waste batteries (releasing toxic gases).

Disassemble the battery (electrolyte corrodes the skin, lithium is flammable when exposed to water).

Mixing with ordinary garbage (increasing pollution risk).

6. Policies and Regulations

EU: According to the Battery Directive, the battery recycling rate must be above 45%.

USA: Regulated by EPA, each state has strict regulations on lead-acid battery recycling.

7. Suggestions for public participation

Purchase low mercury/mercury free batteries and choose rechargeable batteries.

Participate in recycling activities initiated by environmental organizations.

Promote knowledge about battery hazards and encourage community recycling.

Through the above measures, the harm of waste batteries to the environment can be minimized to the greatest extent possible, and resource recycling can be promoted.