



**TSHISEVHE C&I ENERGY**

## **The Environmental Protection Bureau collects waste lead-acid batteries**



### **Overview**

EPA recommendation: Return lead-acid batteries to a battery retailer or local household hazardous waste collection program; do not put lead-acid batteries in the trash or municipal recycling bins.

### **Frequently Asked Questions**

#### **Does EPA need a public education program on battery recycling?**

Requires EPA to establish a public education program on battery recycling and the proper handling and disposal of used batteries. EPA is required to consult with manufacturers and retailers to carry out this initiative.

#### **Why did Congress pass the battery Act?**

acknowledging the steady increase in the use of recharge-able batteries, as well as potential environmental impacts resulting from their improper disposal, Congress passed the Battery Act to facilitate the increased collection and recycling of Ni-Cd and certain SSLA rechargeable batteries.

#### **Should a vehicle repair practitioner dispose of a battery as chemical waste?**

In this respect, practitioners in the vehicle repair trade should dispose of the waste batteries as chemical waste. The law requires trade practitioners to hand waste batteries over to licenced chemical waste collectors for collection and delivery to approved facilities for treatment.

## **What happens if you recycle a lead-acid battery?**

Inappropriate recycling operations release considerable amounts of lead particles and fumes emitted into the air, deposited onto soil, water bodies and other surfaces, with both environment and human health negative impacts. Lead-acid batteries are the most widely and commonly used rechargeable batteries in the automotive and industrial sector.

## **How do battery manufacturers reduce the use of toxic components?**

Redesign - Some battery manufacturers are redesigning their products to reduce or eliminate the use of toxic constituents. For example, since the early 1980s, manufacturers have reduced their use of mercury in batteries by over 98 percent.

## **What is Section 4 of EPA's battery recycling law?**

With this in mind, Section 4 of the Act requires EPA to consult with rechargeable battery manufacturers, rechargeable consumer product manufacturers, and retailers to establish a public education program on battery recycling and the proper handling and disposal of used Ni-Cd and certain SSLA batteries.

## **Article Content**

### **Waste batteries**

In its resolution 3/9, the United Nations Environment Assembly invited the COP to consider updating the technical guidelines for the environmentally sound management (ESM) of waste lead-acid batteries. It was recommended during the OEWG-12 face-to-face meetings that the COP should decide to update those technical guidelines.

### **Track 2: Mid-Format Batteries**

Finally, Battery Council International (BCI) concluded the session by discussing lead-acid battery collection and consumer education, emphasizing BCI's extensive recycling ...

### **Study on the Environmental Risk Assessment of Lead-Acid ...**

874 Jing Zhang et al. / Procedia Environmental Sciences 31 ( 2016 ) 873 – 879 Lead-acid batteries have been used for more than 130 years in many different applications that include automotive ...

### **CAL/EPA UNIFIED PROGRAM POLICY MEMORANDUM..**

protection of public health and safety and the environment. ANALYSIS . While lead acid batteries are a common item, they are somewhat unique as a hazardous material and there has been confusion and inconsistency throughout the State and among CUPA's in how lead acid batteries have been reported within the program limits (i.e. 55 gallons

Progress in Waste Lead Paste Recycling Technology from ...

rate of lead-acid battery exports from China, which declined at a stable rate after 2016. In 2018, the lead-acid battery export volume for China reached 190.23 million, whereas the import volume was only 10.94 million [16, 17]. This high-trade deficit is one of the major causes of the relatively low lead-recycling rate in China.

Recycling lead from waste lead-acid batteries by the combination ...

Lead-acid batteries (LABs) have been undergoing rapid development in the global market due to their superior performance , , .Statistically, LABs account for more than 80% of the total lead consumption and are widely applied in various vehicles .However, the soaring number of LABs in the market presents serious disposal challenges at the end of life , .

Hong Kong's recycling of lead acid batteries is failing, as scrap ...

Illegal exports to developing nations with lax environmental and labour protection enforcement for recycling have seriously cut into the amount of waste batteries it can collect for turning into ...

Lead Waste and Recycling | Missouri Department of Natural ...

The department currently has active permits issued to three hazardous waste treatment, storage and disposal (TSD) facilities for lead related operations: Exide Technologies, Forest City - Store whole "spent" lead-acid batteries, disassemble lead-acid batteries and dispose of hazardous waste (slag) produced by Exide in an on-site landfill.

Technical guidelines for the environmentally sound ...

Dust Collection and Air Filtration ... protection and improvement of its environmental quality; (b) protection of its population health; (c) adoption of clean technologies in order to minimize waste generation; ... solution to the environmentally sound management of waste lead-acid batteries. 1 Heinstock, ICME study 2. 1. HISTORICAL BACKGROUND

Used Household Batteries | US EPA

EPA is developing battery collection best practices for state, Tribal, and local governments to recycle batteries in a manner that is technically and economically feasible, and ...

Track 2: Mid-Format Batteries

Summary. As required by the Bipartisan Infrastructure Law, the EPA is developing battery collection best practices and voluntary battery labeling guidelines to improve battery collection and recycling and reduce incidents that threaten waste management worker safety. The EPA is developing battery collection best practices for state, Tribal, and local ...

Waste Management in Lead-Acid Battery Industry: A Case ...

Keywords: lead acid battery, waste management, hazardous waste 1.0 Introduction: ... Environmental protection act came in, which may be called a second step towards improvement in

Lead Batteries: Re-Charging China's E-Waste Disposal

Daniela Salaverry, speaking at a China Environment Forum meeting in October 2007, related how the Chinese nongovernmental organization (NGO) Green Anhui, based in Hefei city Anhui Province, alerted the media to an illegal dump of batteries on the shore of the local river resulting in the local environmental protection bureau removing the ...

Storage and management of waste batteries

harm from pollution and waste. This includes the Environment Protection Act 2017 (EP Act) and Environment Protection Regulations 2021 (EP Regulations). Table 1 below shows some of your key regulatory requirements. Table 1: Requirements that apply to the management of waste batteries. Your environmental requirements The EP Act General Environmental

Navigating India's Battery Waste Regulation

Battery waste management is a critical environmental concern in India. The rapid growth of technology and consumer electronics has led to a significant increase in battery usage and subsequent waste generation. Effective management of this waste is essential to prevent environmental pollution and ensure the sustainable use of resources.

Health hazards of China's lead-acid battery industry: a review of ...

Wang JZ, Cao GQ, Zhang R. Lead-acid battery development and environmental impact. China Metal Bulletin. 2012; 21:16–21. [Google Scholar] China Environment Forum. Lead batteries: re-charging China's e-waste disposal. China: A China Environmental Health Project Research Brief; 2008. [Google Scholar] Yao LC, Zhang BG.

Waste lead acid batteries

An environment protection licence is required to treat, process or reprocess waste lead acid batteries. Waste tracking requirements. Waste lead acid batteries transported between NSW and another state or territory must be tracked. Acid contained within waste lead acid batteries is not subject to the liquid waste levy. Recycling and disposal ...

## Defra's Latest POPs Guidelines for Lead Acid Batteries

This guidance outlines specific procedures for classifying and handling these batteries to ensure proper environmental protection. Get a quote: 0333 015 3522. ... Defra has released new guidelines regarding the waste management of lead acid batteries that either contain or potentially contain Persistent Organic Pollutants (POPs). This guidance ...

Battery hazards and safety: A scoping review for lead acid and ...

It should be highlighted that the Advanced Lead Acid Battery Consortium that was formed in 1992 has been a major sponsor of such research activities. ... Process Safety and Environmental Protection ... 2006/66/Ec of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators ...

## Recycling used lead-acid batteries

Battery collection, storage and transportation 29 7.2. Battery recycling 29 ... (California Environmental Protection Agency, 2015). Around 85% of the total global consumption of ... The main pathways of exposure to lead from recycling used lead-acid batteries arise from environmental emissions. These occur at various stages in the

Storing lead acid batteries, cable and gas cylinders at household waste ...

You must operate a HWRC site with an environmental permit. To accept lead acid vehicle batteries coded 16 06 01, your permit must include 20 01 33 (batteries and accumulators included in 16 06 01 ...

## Lead Acid Battery Recycling: How Much Is Recycled And Its ...

According to the U.S. Environmental Protection Agency (EPA), about 80% of the materials in a lead-acid battery can be reused. This includes recovering approximately 90% of ...

Analysis on pollution prevention and control of waste lead battery ...

Su Yu, Lin Chuansong and Yang Aihe 2019 Talking about the pollution prevention technology and policy of waste lead-acid batteries Light Industry Science and Technology 35 118-119 Google Scholar Wang Hongmei, Xia Yuefu, Xi Chunqing, Liu Jingjun and Wang Baolu 2018 Responsibility and responsibility of the producers in lead-acid storage ...

## Waste Lead Acid Batteries (WLAB)

Recycled lead is a valuable commodity for many people in the developing world, making the recovery of car batteries [known as Waste Lead-Acid Batteries (WLAB) or Used Lead-Acid Batteries (ULAB)] a viable and ...

## Practices and Options

Practices and Options for ESM of Spent Lead-acid Batteries within North America Page  
iii Preface Spent lead-acid batteries (SLABs) were chosen as the subject of study for  
this report because they are a priority substance of mutual concern in North America  
and the waste

Household Battery Recycling | Department of Environmental Protection ...

Retail collection points may include Batteries Plus, Home Depot, Lowe's, and Staples.  
This battery type may also be accepted at one of Pennsylvania's Household  
Hazardous Waste (HHW) Collection Program events. The Household Hazardous Waste  
Collection Program webpage contains a complete list of these collection events.  
Nickel-Zinc

Analysis on pollution prevention and control of waste lead battery ...

From the perspective of recycling, waste lead-acid batteries have very objective  
utilization value. However, from the perspective of environmental protection, waste  
lead-acid batteries contain ...

Transportation Environmental Resource Center

Persons who store spent lead-acid batteries before reclaiming them must notify EPA  
and obtain a RCRA permit for that storage. Lead-acid batteries that are regenerated  
rather than reclaimed remain exempt from the hazardous waste ...

Bright Futures Begin Lead-Free: Reducing Lead Exposure Together

The Environmental Protection Agency (EPA) regulates how companies manage lead-  
bearing waste, requiring proper treatment methods to prevent environmental  
contamination of air, water, and soil. Companies must treat and store lead waste in  
compliance with hazardous waste regulations, including the use of secure containers,  
clear labeling, and ...

Where Can I Dispose Of A Battery? Safe Recycling And Drop-Off ...

Many businesses and municipal programs offer secure collection and recycling  
services. Lead-Acid Batteries: Lead-acid batteries are widely used in vehicles and  
industrial ...

How Can I Safely Dispose of My Waste, Bureau of Remediation and Waste ...

When you buy a new automotive lead acid battery, bring your old one to the store  
where you are buying your battery to avoid paying a \$10 "core" fee and your old  
battery will be recycled. For rechargeable batteries, check to find a free collection  
site that will accept and recycle your rechargeable batteries (many ...

United States Environmental Protection Agency 1EPA

Regulated lead-acid batteries must be labeled "Pb" or with the words "LEAD,"  
"RETURN," and "RECYCLE" and, if the regulated batteries are sealed, the phrase  
"BATTERY MUST BE ...

## Batteries Product Stewardship

The universal waste regulations streamline collection requirements for certain hazardous wastes including batteries. Rechargeable Battery Recycling Corporation (RBRC) : RBRC is a ...

### Recycling used lead-acid batteries

Recycling used lead-acid batteries: health considerations ISBN 978-92-4-151285-5 ... 7.1. Battery collection, storage and transportation 29 7.2. Battery recycling 29 ... (California Environmental Protection Agency, 2015). Around 85% of the total global consumption of

### Hazardous Waste FAQ | Department of Environmental Protection ...

Processing these wastes under universal waste regulations helps to encourage collection and proper recycling, treatment or disposal of the waste. ... Pennsylvania Department of Environmental Protection Bureau of Waste Management Division of Hazardous Waste Management P.O. Box 69170 ... lead-acid batteries; treatment onsite, at the point of ...

### WPD | Solid Waste | Lead Acid Batteries Collection/Recycling ...

Lead Acid Batteries Collection/Recycling Authorization Revised On: Jan. 27th, 2025 - 10:51 am This authorization is necessary for facilities to become approved collection and/or recycling sites for lead acid batteries.

### Lead Acid Battery Recycling: How Much Is Recycled And Its Environmental ...

Lead-acid batteries have a 99% recycling rate in the U.S., making them the most recycled consumer product, according to Battery Council International. ... Recycling lead acid batteries contributes to resource conservation and environmental protection. Lead: Lead is the primary recyclable material in lead acid batteries. It is a heavy metal that ...

### Management of Spent Lead-Acid Batteries in South Africa

Lead-Acid Batteries in South Africa What are lead-acid batteries? Lead-acid batteries (LABs) are secondary batteries (meaning ... National Environmental Management: Waste Act, 2008 (Act 59 of 2008) (NEM:WA) as amended. NEM:WA is the central ... especially waste pickers, collect and sell them to scrap metal merchants. The scrap metal merchants

### Path to the sustainable development of China's secondary lead ...

Second, there are three main routes through which batteries are recycled: (1) lead battery manufacturers oversee recycling throughout their retail networks; (2) companies that deal with waste lead batteries—primarily companies that repair and dismantle automobiles—collect waste batteries from various sources and sell them to recycling ...

United States Environmental Protection Agency 1EPA

Ni-Cd batteries must be labeled with the phrase "CONTAINS NICKEL-CADMIUM BATTERY. BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY." Rechargeable consumer products containing nonremovable regulated lead-acid batteries must be labeled with the phrase "CONTAINS SEALED LEAD BATTERY. BATTERY MUST BE RECYCLED."

Green Vehicle Repair Workshop | Environmental ...

In accordance with the Waste Disposal (Chemical Waste)(General) Regulation (Cap. 354C), used lead-acid batteries are classified as chemical waste and controlled by the said Regulation, irrespective of whether they contain battery ...

LCQ2: Waste lead-acid storage batteries

If waste lead-acid storage batteries (waste batteries) are not disposed of properly, the hazardous substances therein may threaten human health and contaminate the environment. As such, the collection, transportation, disposal as well as import and export of waste batteries are regulated by the law.

## Contact Us

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