Hazards of the lead-acid battery industry

What are the implications of a lead-acid battery review?
The implications of this review are two-fold: it validates calls for a nationwide assessment of lead exposure pathways and levels in China as well as for a more comprehensive investigation into the health impacts of the lead-acid battery industry.

Why are lead-acid battery prices so high in China?
The unprecedented growth of China's lead-acid battery industryfrom the electric bike,automotive,and photovoltaic industries may explain these persistently high levels,as China remains the world's leading producer,refiner,and consumer of both lead and lead-acid batteries.

What are the environmental risks of lead-acid batteries?
The leakage of sulfuric acidwas the main environmental risk of lead-acid batteries in the process of production,processing,transportation,use or storage. According to the project scale the sulfuric acid leakage rate was calculated to be 0.190kg/s,and the leakage amount in 10 minutes was about 114kg.

Why is lead poisoning a problem in China?
Despite China's leaded gasoline phase out in 2000, the continued high rates of lead poisoning found in children's blood lead levels reflect the need for identifying and controlling other sources of lead pollution. From 2001 to 2007, 24% of children in China studied (N = 94,778) were lead poisoned with levels exceeding 100 ug/L.

What is a vented lead acid battery?
Vented lead acid: This group of batteries is "open" and allows gas to escape without any positive pressure building up in the cells. This type can be topped up,thus they present tolerance to high temperatures and over-charging. The free electrolyte is also responsible for the facilitation of the battery's cooling.

How many children in China are lead poisoned?
From 2001 to 2007, 24% of children in China studied (N = 94,778) were lead poisoned wi ... Health hazards of China's lead-acid battery industry: a review of its market drivers, production processes, and health impacts
Environ Health. 2013 Aug 3;12:61.doi: 10.1186/1476-069X-12-61. Authors

This paper is the first to integrate the market factors, production processes, and health impacts of China"s growing lead-acid battery industry to illustrate its vast public health ...

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Lead-acid batteries were consisted of electrolyte, lead and lead alloy grid, lead paste, and organics and

plastics, which include lots of toxic, hazardous, flammable, explosive ...

B - Battery Acid The Hazard. Batteries contain Sulphuric Acid which may leak for various reasons. Also acid may be given off as droplets and/or spray/mist during recharge. Sulphuric ...

selecting the appropriate replacement batteries to ensure the battery technology matches the workplace electrical charging system; avoidance of ignition sources (e.g. sparks, flame) when ...

In "Mass Lead Intoxication from Informal Used Lead Acid Battery Recycling in Dakar, Senegal," Haefliger et al. (2009) described a problem throughout the developing world that is both tragic ...

Off-gassing occurs when batteries, particularly lead-acid types, release gases such as hydrogen during overcharging. ... Ensuring battery safety is fundamental, especially ...

The unprecedented growth of China"s lead-acid battery industry from the electric bike, automotive, and photovoltaic industries may explain these persistently high levels, as ...

The lead-acid battery is a type of rechargeable battery first invented in 1859 by French physicist Gaston Planté is the first type of rechargeable battery ever created. Compared to modern rechargeable batteries, lead-acid batteries ...

This scoping review presents important safety, health and environmental information for lead acid and silver-zinc batteries. Our focus is on the relative safety data ...

This review assesses the role of China"s rising lead-acid battery industry on lead pollution and exposure. It starts with a synthesis of biological mechanisms of lead exposure ...

This paper reviews the status of the lead and lead-acid battery industries in China, including lead mining, lead refining, secondary lead production, the lead-acid battery ...

Health hazards of China"s lead-acid battery industry: a review of its market drivers, production processes, and health impacts ... lead-acid battery industry from the electric bike, automotive, ...

Health hazards of China"s lead-acid battery industry: a review of its market drivers, production processes, and health impacts van der Kuijp, Tsering Jan Huang, Lei

This paper is the first to integrate the market factors, production processes, and health impacts of China"s growing lead-acid battery industry to ...

This paper reviews recent trends in lead-acid battery design aimed at the long established applications, discusses their impact on the needs of the more recently emerged photovoltaic...

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Hazards Inorganic lead dust is the most significant health exposure in battery manufacture. Lead can be absorbed into the body by inhalation and ingestion. Inhalation of airborne lead is ...

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