

LEAD ACID BATTERY RECYCLING

Dealing With Other Battery Types

Recycling Non-Lead Acid Batteries

Used non-lead acid batteries (UNLAB) must not be packaged together with used lead acid batteries (ULAB) for recycling. They are recycled by different processes and have different packaging and transport requirements. Some of the common battery types are shown in following pages.

Safety

Used batteries may still retain a charge, so there is the potential for unplanned discharge. All batteries, unless there is information to the contrary, should be treated as holding a charge and stored and handled with care. Unplanned discharges may result in injury or damage to property. Some types of batteries are small enough to be ingested and as such should be stored in a safe place away from the reach of children. If ingested contact the Poisons hotline.

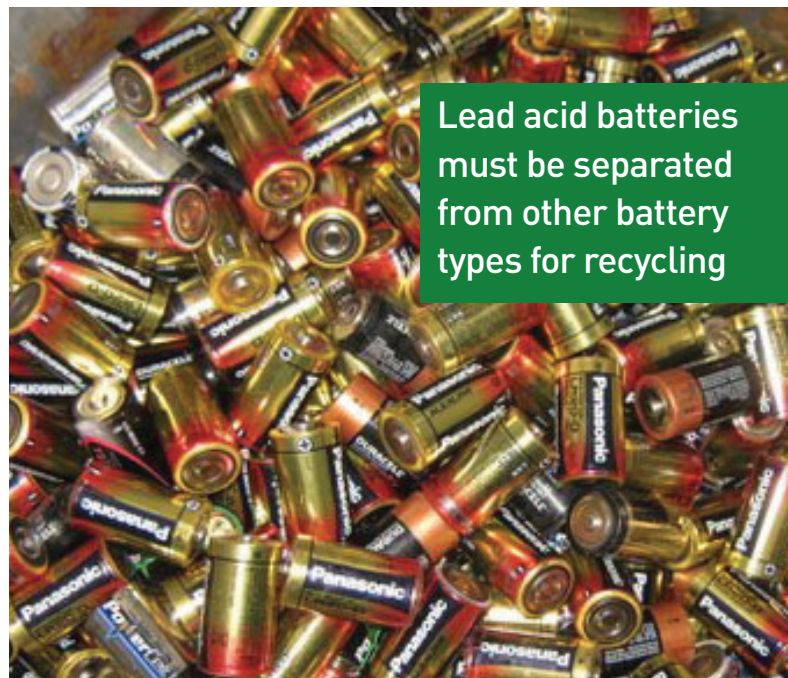
Large lithium batteries such as those used for electric vehicles and bikes can be mistaken for lead acid batteries. They can be dangerous if not managed correctly and must be separated from ULAB prior to storage and transport.

How to find a recycler

Information about battery recycling services in your local area is available through Planet Ark's website recyclingnearyou.com.au/batteries.

Mobile phones and mobile phone batteries can be recycled through the MobileMuster program (www.mobilemuster.com.au). They can be dropped off at over 3,500 participating retail stores and local council facilities or returned in a reply paid envelope.

See over the page for contact details if you are a commercial business or if you have a large number of batteries.



Lead acid batteries must be separated from other battery types for recycling

Poisons Hotline 13 11 26
Emergency 000

Australian Battery Recycling Initiative

The Australian Battery Recycling Initiative is a not-for-profit association established in 2008 to promote responsible environmental management of batteries at end of life. More information on battery recycling can be found on their website at www.batteryrecycling.org.au.

For more information on handling large quantities of UNLAB, refer to ABRI's Safety Guidelines for Aggregation Points at www.batteryrecycling.org.au/wp-content/uploads/2013/06/16505_ABRI_SAFETY_AGGREGATION.pdf

The following ABRI members provide a collection and recycling service for non-lead acid batteries. Contact the company or check their web site for details:

BATTERY WORLD

Tel: 13 17 60
www.batteryworld.com.au

CLOSE THE LOOP LTD

Tel: 03 9930-8600
mlizza@closetheloop.com.au
www.closetheloop.com.au

INFOACTIV GROUP PTY LTD

Tel: 1800 111 399
batteryrecovery@infoactiv.com.au
www.infoactiv.com.au

MRI (AUST) PTY LTD

Tel: 1300 439 278
will@mri.com.au
www.mri.com.au

SITA ENVIRONMENTAL SOLUTIONS




Tel: 02 8754 0000
info@sita.com.au
www.sita.com.au

TES-AMM AUSTRALIA PTY LTD

Tel: 1300 730 621
info.au@tes-amm.com
www.tes-amm.com.au

Examples of Non-Lead Acid Batteries

LARGE/INDUSTRIAL BATTERIES

TYPE	APPLICATIONS
<p>Vented (wet cell) nickel cadmium (NiCd)</p> 	<ul style="list-style-type: none"> • Emergency lighting, standby power, and uninterruptible power supplies. • Recycled in Australia by MRI.
<p>Nickel metal hydride (NiMH)</p> 	<ul style="list-style-type: none"> • Electric vehicles, power back-up for telecommunications. • Exported for recycling.
<p>Lithium ion (Li-ion) batteries</p> 	<ul style="list-style-type: none"> • Electric vehicles, electric bikes. • Exported for recycling.

HANDHELD RECHARGEABLE BATTERIES

TYPE	APPLICATIONS
<p>Sealed lead acid (SLA)</p> 	<ul style="list-style-type: none"> • Emergency devices, emergency exit signs, security systems, mobility scooters, UPS (uninterruptable power supply), hobby applications etc. • These can be recycled with automotive lead acid batteries.
<p>Nickel metal hydride (NiMH)</p> 	<ul style="list-style-type: none"> • Cordless power tools, digital cameras, two-way radios, cordless phones etc. • Exported for recycling.
<p>Nickel cadmium (NiCd)</p> 	<ul style="list-style-type: none"> • Emergency lighting, cordless power tools, digital cameras, two-way radios, cordless phones etc. • Exported for recycling.
<p>Lithium ion (Li-ion)</p> 	<ul style="list-style-type: none"> • Mobile phones, laptops, two-way radios, cordless power tools, digital cameras etc. • Exported for recycling.

HANDHELD SINGLE USE BATTERIES

TYPE	APPLICATIONS
<p>Alkaline / carbon zinc</p> 	<ul style="list-style-type: none"> • Cameras, toys, games consoles, smoke detectors, clocks, radios, torches etc. • Exported for recycling.
<p>Lithium manganese dioxide</p> 	<ul style="list-style-type: none"> • Cameras, toys. • Exported for recycling.
<p>Lithium sulphur dioxide (LiSO2)</p> 	<ul style="list-style-type: none"> • Automotive e-tags, military radio communications, emergency beacons etc. • Exported for recycling.

TYPE	APPLICATIONS
<p>Lithium-thionyl chloride (Li-SOCl₂)</p> 	<ul style="list-style-type: none"> • Utility meters, alarms, GPS, military radio communications etc. • Exported for recycling.
<p>Silver oxide button cells</p> 	<ul style="list-style-type: none"> • Hearing aids, watches, cameras etc. • Recycled in Australia by Tri-Cycle and Ecocycle Australia.
<p>Zinc air button cells</p> 	<ul style="list-style-type: none"> • Hearing aids, pagers etc. • Exported for recycling.
<p>Mercuric oxide button cells (no longer commercially available)</p> 	<ul style="list-style-type: none"> • Hearing aids, watches, calculators, cameras etc. • Recycled in Australia by Ecocycle Australia.
<p>Alkaline manganese button cells</p> 	<ul style="list-style-type: none"> • Toys, calculators, remote controls, cameras etc. • Exported for recycling.
<p>Lithium manganese dioxide coin cells</p> 	<ul style="list-style-type: none"> • Digital cameras, car keys, electronics etc. Tend to be larger than the button cells. • Exported for recycling.

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