



# LithiumCollect

Recycling and Waste Management  
System for Lithium-Ion Batteries



[www.lithiumcollect.com](http://www.lithiumcollect.com)

# Lithium-Ion Safety System

Due to their volatile nature, all damaged and critical lithium-ion batteries are always put in storage and transported according to ADR dangerous goods regulations. OneCallCollection Lithium Collect uses the audited and patented security system LIONGUARD® which features PyroBubbles® technology developed by our partner GENIUS Technology GmbH to achieve highest levels of safety when storing and transporting lithium-ion batteries.

## LIONGUARD® - Storage and transport containers

Certified by the Federal Institute for Materials Research and Testing (BAM), LIONGUARD® is an advanced packaging concept that complies with all ADR requirements.

All OCC Lithium Collect customers will be provided with LIONGUARD® containers to ensure safe on-site storage and ADR-compliant transport. LIONGUARD® containers are 100% made in Germany.



## PyroBubbles® - Special Extinguishing Agent

OCC LithiumCollect relies on the worldwide unique PyroBubbles® special extinguishing agent for the safe storage and transport. It is an integral part of the safety system, greatly reducing the risk of fire.

PyroBubbles® is a special extinguishing agent classified to DIN EN standard (Classes 3 – 7). They are very light, are non-combustible (A1 according to DIN 4102) and can be stored and reused. They are used in the certified LIONGUARD® storage and transport containers.

[PyroBubbles.com](http://PyroBubbles.com)

# LithiumCollect

OCC LithiumCollect is a specialist part of ECOBAT Technologies' unique OneCallCollection (OCC) service, offering safe and compliant storage, collection and recycling for any kind of lithium ion batteries including end-of-life, potentially dangerous and damaged accumulators, covering prototypes such as M228 and SV 376.

With today's technology demanding high energy batteries there has been a vast increase in end of life lithium ion batteries to be collected and recycled safely. Because of their high energy density and the potential to spontaneously combust, these batteries are classified as dangerous goods under the ADR regulations (Accord Dangereux Routier, the European regulations concerning the international transport of dangerous goods by road). As a result, they need expert handling when being stored or transported and fully compliant routes for recycling.

To meet the demand for safe recycling routes for lithium ion batteries, ECOBAT's OneCallCollection service has joined with technology partner GENIUS Technology GmbH to provide an integrated, legally compliant and cost-effective solution for the collection and disposal of high-energy batteries.

LithiumCollect provides a full-service logistics management for any type of waste lithium-ion batteries. It includes an Internet portal for complete logistics management, the provision of certified storage and transport containers for the collection points, legally compliant recycling and all legal verification.



# Customer Benefits

Safe storage, transportation and disposal for end-of-life and critical risk high-energy batteries:

- risk reduction
- legal certainty
- service oriented
- timesaving
- cost effective

# Recycling Solution



If you use LithiumCollect, you will benefit from

- Advice and support from trained personnel with first-class knowledge of the potential issues surrounding high energy batteries
- On-site evaluation of battery storage conditions and recommendations for optimum safe storage, if required
- Specialist containers approved for lithium battery storage
- Batteries for collection inspected on site by qualified OCC personnel prior to removal
- Collection, transport and recycling using ADR compliant OCC specialist vehicles
- Provision of all legally required evidence, documentation and statistics

Order processing via the OneCallCollection web portal



1. Central booking



2. Online Information order processing



3. Final documentation for each order



4. Contract and branch management

# Containers and Quantities

OCC LithiumCollect offers its customers different types of containers, depending on the number of batteries and their condition.

## For damaged and defective batteries:

- Single containers (available in 4 different sizes) for packaging and transportation of defective and potentially dangerous Li-Ion batteries. Maximum weight 400 kg. Plus tailor-made containers.
- Box-in-Box system: 4 or 2 smaller boxes for packaging and storage of defective and used batteries up to 30 kg for subsequent transport in larger transport box

Both types of containers allow the easy and safe packaging, storage and transport of Li-Ion batteries to full ADR-compliance, regulation SV 376 which includes the declaration according to BAM and other competent national authorities.

## For end-of-life batteries:

- Provision of a wide range of sizes to meet individual storage requirements
- Even here OCC prioritises safety, thus all storage options feature PyroBubbles® technology to reduce fire risk





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G&P Batteries Ltd., United Kingdom

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Environmental management ISO 14001  
Quality management ISO 9001  
Specialized waste management §56 KrWG