

ERP Ireland Battery Box / 20l Tube Risk Assessment

RISK ASSESSMENT SUMMARY

Description: This Risk Assessment considers the hazards and risks involved with the collecting, handling and storage of waste portable batteries under the Waste Batteries and Accumulators Regulations 2009 in relation to a potentially full box of batteries (Approx. 25Kg Max for large cardboard boxes and approx. 10kg max for smaller plastic boxes) that will be sent to a processor for recycling.

Location: Publicly accessible buildings; libraries, schools, leisure and community centres, council offices, retail shops, etc

Personnel at Risk: Customers, employees, neighbours, children, elderly

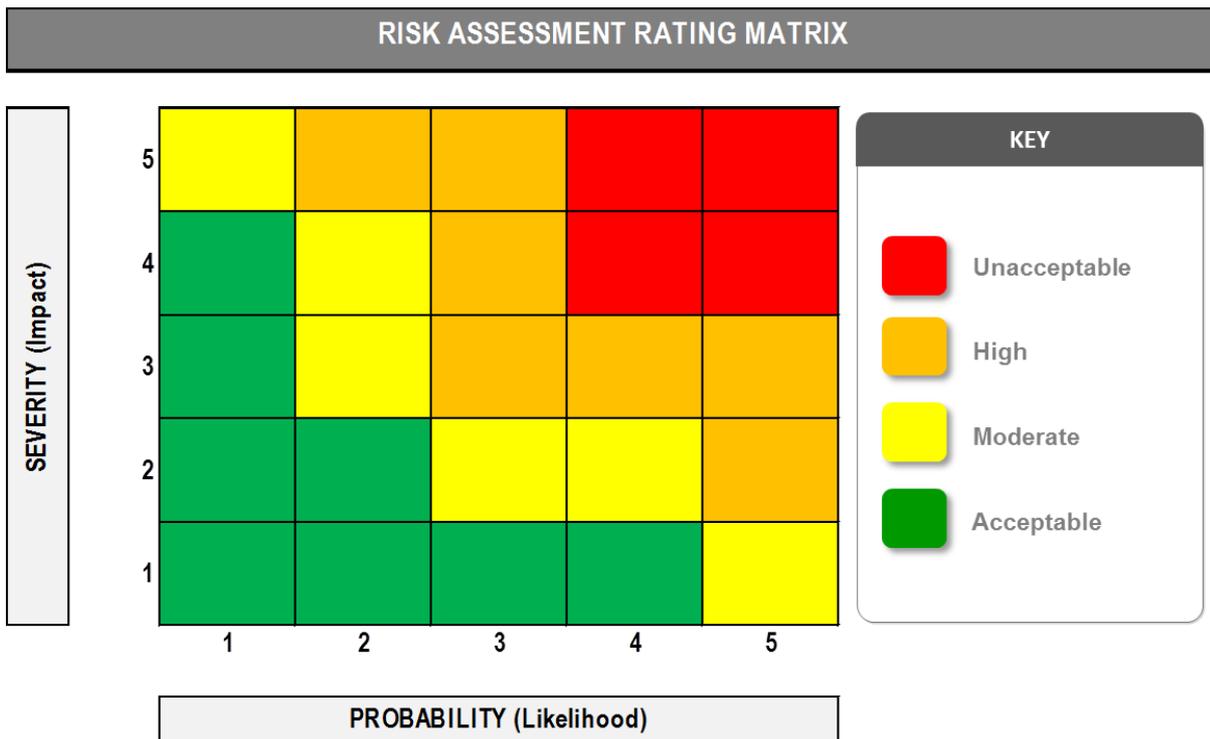
RISK ASSESSMENT SCORING MATRIX:

Severity	Definition	Rating
Very High	Causing multiple deaths and widespread destruction e.g. fire/ building collapse.	5
High	Causing death, serious injury or permanent disability to an individual.	4
Moderate	Temporary disability causing injury or disease capable of <u>keeping an individual off work for three days or more</u> and reportable under RIDDOR.	3
Slight	Minor injury, which would allow the individual to continue work after first aid treatment on site or at a local surgery. The duration of the stoppage or treatment is such that the normal flow of work is not seriously interrupted.	2
Nil	Very minor injury, bruise, graze, no risk of disease.	1

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Likelihood	Definition	Rating
Inevitable	If the work continues as it is, there is almost 100% certainty that an accident will happen, for example: <ul style="list-style-type: none"> ▪ A broken stair or broken rung on a ladder ▪ Bare, exposed electrical conductors ▪ Unstable stacks of heavy boxes 	5
Highly Likely	Will happen more often than not. Additional factors could precipitate an incident but it is still likely to happen without this additional factor.	4
Possible	The accident may occur if additional factors precipitate it, but it is unlikely to happen without them.	3
Unlikely	This incident or illness might occur but the probability is low and the risk minimal.	2
Remote possibility	There is really no risk present. Only under freak conditions could there be any possibility of an accident or illness. All reasonable precautions have been taken - This should be the normal state of the workplace.	1

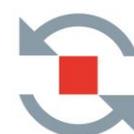
All ERP Ireland risk assessments are scored used the following scoring mechanism:



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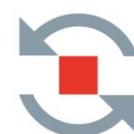
Description	RISK SCORE
Injuries due to lifting box / 20l tube incorrectly	
Minor/severe cuts from damaged batteries	
Minor/severe burns hazardous materials leakage	
Potential fire due to storing batteries incorrectly / incorrect types	
Injuries due to assembling the box incorrectly	
Storing box / 20l tube in an inappropriate location to prevent damage to the box	
Injuries due to storing batteries incorrectly (Without liner)	
Injuries due to storing batteries incorrectly (Into plastic liner)	
Storing box / 20l tube in an inappropriate location to prevent blockages / ventilation	

Hazard Description	Risk	Likelihood	Severity	Risk Factor	Control Measures identified.
Manual Handling – lifting the box or 20l tube either up or down from the storage position	Strain / injury from careless handling of load				Manual Handling training for all end users who will be required to lift or move these boxes / 20l tubes
Batteries falling out from the bottom of the box as it is lifted due to incorrect/poor assembly	Strain / injury from dropping of load. Batteries falling onto feet. Loose batteries on the floor could lead to potential slips and trips				End users to check that the boxes have been assembled correctly. Training for all end users
Base of box collapsing due to becoming wet from external fluid	Strain / injury from dropping of load. Batteries falling onto feet.				Information provided to ensure box is situated in a dry, convenient and accessible location. Cardboard boxes are also provided with liner bags to place inside the box to contain the batteries, therefore the box will remain dry. N/A to plastic boxes



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Hazard Description	Risk	Likelihood	Severity	Risk Factor	Control Measures identified.
The mixing of a full range of batteries including lithium has the potential for fire	Batteries could come into contact and potentially spark and start a fire.				Boxes / 20l tubes have a delivery slot that will only accept small domestic type batteries Signage is very explicit as to what type of battery can be placed into the box. Signage includes what type of batteries can be recycled, information clearly detailed on the box / 20l tube to ensure batteries are fully discharged (Where possible) and to keep the box / 20l tube in a convenient and accessible location. For larger batteries or those with exposed wires, recommend terminals are taped up.
Storage of batteries (Without liner)	Weight of batteries could be too much for the cardboard box itself and collapse. Loose batteries on the floor could lead to potential slips and trips. Any leakage from batteries could result in minor burns when moving box				Cardboard boxes are provided with liner bags to place inside the box to contain the batteries. Information clearly detailed on the box to ensure batteries are fully discharged (where possible). Seal the liners tightly with string when not in use (this should be done daily when the site is closed). Plastic boxes have smaller payload, therefore N/A.



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Storage of batteries in the plastic liners	Liners split and contents fall onto feet. Loose batteries on the floor could lead to potential slips and trips				<p>Liners are designed to hold and contain large quantities of batteries.</p> <p>For batteries in the smaller plastic boxes, decant these into the liner and seal the liner tightly with a string – this should be done daily.</p> <p>For batteries in 20l tubes, ensure the lid is down and it is stored in a dry, covered area.</p>
Storage of the box itself (ventilation/proximity to fire sensors and extinguishers)	Blockages to fire exits and extinguishers could cause panic and slips and trips in the case of a fire.				Information provided to ensure box / 20l tube is situated in a dry, convenient and accessible location, and not blocking exits, fire sensors or extinguishers
Hazardous material spillage from leaking battery units.	Minor/severe burns from chemical spillage				Wear protective gloves when handling waste batteries. Ensure batteries are placed in the liner to contain any leakage.
Sharp parts on batteries caused by damage	Cuts from damaged batteries				Wear protective gloves when handling waste batteries

Recommendations:

- ↑ Inform all personnel of the findings of the Risk Assessment
- ↑ Consider manual handling training for all those involved with
- ↑ Consider basic training for all those involved as to the requirements of the battery box (Assembly, storage location, battery types, etc).
- ↑ Do not attempt to move full 20l battery tubes – this should be done by ERP’s designated collection drivers.

Disclaimer

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To the extent permitted by applicable law we hereby exclude liability for loss or damage, whether in contract, tort (including negligence), breach of statutory duty or otherwise, even if foreseeable, arising under or in connection with your use of the ERP battery collection and recycling service, including in each case for any (i) direct loss or damage; (ii) indirect or consequential loss or damage; (iii) loss of income or revenue; (iv) loss of business; (v) loss of profits or contracts; (vi) loss of anticipated savings; (vii) loss or corruption of data; and/or (viii) loss of goodwill.

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