


<b>Subject</b>	A standard collection Tube for recycled batteries	<p style="text-align: center;"><b>TASK DESCRIPTION:</b></p> <p>This Risk Assessment is to consider the hazards and risks involved with filling and handling a full Polycarbonate Tube of batteries (30 Kg Max filled to capacity)</p> <p style="text-align: center;">Size: Tube 200mm Diameter X 750mm Height Base 350mm</p> <p>that will be sent to a processor for recycling</p>	<b>Assessment no.</b> 004	Batteries – 004 (Tube)
<b>Location</b>	Shops and collection centres		<b>Completed by</b>	M.D.Cockburn BA(Hons) CMIOSH, MIIRSM ,AIEMA, FRSH
<b>Person(s) at Risk</b>	Shop / Collection point employees		<b>Date of Assessment</b>	10 <sup>th</sup> March 2010

20 Ltr Battery Tube



Likelihood ( Potential)			Severity (Probability)		
Low	(1)	Harm will seldom occur	Low	(1)	Minor First Aid injury (Minor)
Medium	(2)	Reasonably likely to occur	Medium	(2)	Short term injury or disability requiring Medical treatment (MTI)
High	(3)	Certain or near certain to occur	High	(3)	Death or major injury (LTI)

Hazard Description	Control Measures in Place	Likelihood (Potential)	Severity (Probability)	Risk factor	New Control Measures Identified
<p>Manual Handling – lifting the Tube either up or down from the storage position at the collection point</p>	<p>The Tube has been designed to contain 30 Kg at its very max however there is a maximum fill line identified to keep it at 20kg</p> <p>Incorporated within the design are handles at top and bottom to facilitate safe lifting</p> <div style="text-align: center;">  </div>	2	2	4	<p>End users need to ensure that all of their staff that may undertake Manual Handling of the tubes receive training</p> <p>Recommend a 15KG mark on the tube for sites where predominantly women are lifting/moving the tube.</p>

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Batteries falling out from the Top and bottom of the Tube as it is lifted	<p>The Tube is affixed to the base plate with adhesive glue Araldite (Acrylonitrile butadiene styrene) which has been chosen for its strength capabilities</p> <p>Tubes produced in Polycarbonate with the ends made from Injected moulded polyethylene (ABS)</p>	1	2	2	<p>Full instruction to be placed on a label visible on the side of the Tube</p> <p>The design of the lid of the tube should incorporate a hasp device that requires a person to actually un-clasp the lid to place in a larger battery, this also keeps the batteries within the box should it be pushed over. This should be a retro fit on existing Tubes</p>
<p>The mixing of a full range of batteries: – AAA, AA, 9V,6V, C, D, &amp; Button</p> <p>that may be disposed off by the members of the public</p>	<p>Signage recommendations are made to the end user to advise of the type of batteries that can be recycled</p> <p>Tubes have a delivery slot with grommet that will only accept small domestic type batteries and the actual lid is hinged to accommodate 6 V batteries</p>	2	2	4	<p>Signage on the Tube to make it specifically clear as to the type of batteries that can be recycled and that wires must be removed, this information must be provided to the end users</p>
The potential for fire from the mixing of the various types of batteries	<p>Signage advises exactly what type of battery can be contained within the tube</p> <p>The tube construction material has been tested to :-</p> <ul style="list-style-type: none"> <li>• Fire retardant Rating – V1</li> <li>• Tube UL 94 HB</li> </ul>	1	1	1	

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## Risk Assessment – Corrective Actions Required

Risk Identified	Risk Rating	No. of People Exposed to Risk	Action Required	Person Responsible	Likelihood	Severity	Risk factor
					New Risk after Corrective Action		
Manual handling	4	1	Clients at point of collection are to ensure all personnel are trained in the correct manual handling to be carried out	Client	1	2	2
Batteries falling out of the bottom of the Tube	2	1	Instructions to be placed on the side of all tubes	Client	1	1	1
Mixing of batteries	4	1	Good signage with pictures making it specifically clear as to what batteries can be recycled using these Tubes	Label Designers	1	1	1
Fire Potential	1	1	Ensure that the materials used meet the original design specification	Tube Designers	1	1	1
What is the risk i.e. being hit by something, a cut, back strain,	Likelihood <b>X</b> severity		What is needed to be done to prevent a accident happening	Persons responsible For, taking the action			

Risk Rating:  
 1 - 2 Low residual risk  
 3 - 5 Medium residual risk  
 6 – 9 High residual risk

SIGNED:

DATED 10 March 2010

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