

What manufacturers need to know and do about Battery Directive 2006/66/EC

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Directive 2006/66/EC	1) Batteries + accumulators 2) Waste Batteries + Accumulators	Goes into effect 26 September 2008
Directive objective	Minimize negative impact on environment Harmonize heavy metal content and labeling throughout the EU.	Prohibits hazardous content: cadmium and mercury Promotes high level of collection and recycling Improvement by operators involved in life cycle: <ul style="list-style-type: none"> - producers - distributors - end-users - recyclers with specific rules
Parties affected	Producer Distributor Economic Operators	Definition of producer: Any person in a member state that irrespective of the selling technique used, including by means of distance selling communication, places batteries or accumulators, including those incorporated into appliances or vehicles, on the market for the first time within the territory of that member state on a professional basis Definition of distributor: Any person that provides batteries and accumulators on a professional basis to an end-user. Definition of economic operator: Any producer, distributor, collector, recycler, or other treatment

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	Member States	operator. Definition of member states: All EU countries
Directive scope	All types of batteries and accumulators. Includes: Battery or accumulators Battery packs Portable battery Button cell Automotive battery Industrial battery Waste battery (see definitions in article 3 of directive)	Regardless of shape, volume, weight, material composition or use. Exemptions: <ul style="list-style-type: none"> - Equipment connected with the protection of Member States essential security interests, arms, munitions, and war material, with the exclusion of products that are not intended for specifically military purposes. - Equipment designed to be sent into space
Types of batteries and accumulators	1) Industrial	Examples: <ol style="list-style-type: none"> 1) Emergency or backup power supply in hospitals or offices. 2) Used in trains, aircrafts, offshore oilrigs, lighthouses 3) Hand-held payment terminals 4) Shop bar code readers 5) Professional video equipment for TV channels, studios, miners and diving lamps. 6) Back up for electric doors 7) Measurement and instrumentation equipment 8) Solar panel, photo-voltaic and other renewable energy applications 9) Electrical vehicles i.e. cars, wheelchairs, bicycles, automatic transport/airport vehicles.

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		10) Any battery not sealed or not automotive. Disposal in landfill sites or by incineration prohibited
	2) Portable	Examples: 1) all sealed batteries that an average person can carry by hand 2) are not automotive or industrial 3) include single cell (AA and AAA) 4) Consumer and professional use i.e. mobile telephones, portable computers. 5) Cordless power tools, hand held appliance intended for maintenance, construction or gardening activities 6) Household appliances i.e. electric toothbrushes, razors. Hand-held vacuum cleaners Convenient collection schemes to be set up free of charge to end-users.
	3) Automotive	Means any battery or accumulator used for automotive starter, lighting, or ignition power. Disposal in landfill sites or by incineration prohibited
Battery collection	Individually	National collection schemes to be operating no later than 26 September 2009 set up by producers or third parties
	Inside equipment	Subject to WEEE directive After mandatory removal, falls under national collection scheme for batteries.
Collection Schemes	Member States shall ensure collections	Schemes for portable batteries and accumulators must: - Enable end-users to discard waste portable

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	<p>schemes are in place.</p> <p>Member States may:</p> <ol style="list-style-type: none"> 1) require producers to set up schemes 2) require economic operators to participate in schemes 3) Maintain existing schemes 	<p>batteries or accumulators at an accessible collection point in their vicinity, having regard to population density.</p> <ul style="list-style-type: none"> - Shall require distributors to take back waste portable batteries or accumulators at no charge when supplying portable batteries or accumulators. They must inform end-users about the possibility of discarding at their sales points. - Shall not involve any charge to end-users when discarding waste portable batteries or accumulators, nor any obligation to buy a new one <p>Schemes for Industrial batteries and accumulators :</p> <ul style="list-style-type: none"> - Producers of industrial batteries and accumulators, or third parties acting on their behalf, shall not refuse to take back waste from end-users, regardless of chemical composition and origin. - Independent third parties may also collect industrial batteries and accumulators. <p>Schemes for automotive batteries and accumulators</p> <ul style="list-style-type: none"> - Producers or third parties , must set up schemes for the collection of waste automotive batteries from end-users, or from an accessible collection point in their vicinity - From private, non commercial vehicles shall not involve any charge to end-users when discarding nor any obligation to buy a new one.

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<p>Financing costs of collecting, treating, recycling, minus profit of reselling materials recovered. Net costs of public information campaigns</p>	<p>Responsibility of registered producers Of all portable and automotive waste batteries and accumulators.</p>	<p>Definition of producers: Any person in a member state that irrespective of the selling technique used, including by means of distance selling communication, places batteries or accumulators, including those incorporated into appliances or vehicles, on the market for the first time within the territory of that member state on a professional basis</p> <p style="padding-left: 40px;">Producer's cost may not be shown separately at the time of sale.</p> <p style="padding-left: 40px;">Exemption of small producers may become available after each EU country independently:</p> <ol style="list-style-type: none"> 1) Drafts such measure 2) Notifies commission, who may approve or reject within 6 months. 3) Makes measure public <p style="color: red; padding-left: 40px;">This applies to all waste batteries and accumulators, irrespective of the date of their placing on the market.</p>
<p>Producer registration</p>	<p>In each EU state</p>	<p>Mandatory</p>
<p>Collection information to end-users</p>	<p>Transparent, reliable and clear information on battery.</p> <p>Responsibility of EU States who may require economic operators to provide the information.</p>	<p>Must include batteries and accumulators information about:</p> <ul style="list-style-type: none"> - Potential effects on the environment and human health of the substances used. - Not disposing as unsorted municipal waste - Participate in their separate collection. - Collection and recycling schemes available to them - Their role in the recycling process.


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		<ul style="list-style-type: none"> - Meaning of symbols: <ul style="list-style-type: none"> a) crossed out wheeled bin b) chemical symbols Hg, Cd, or Pb.
Instructions for use	When included in Appliances	<p>Must include</p> <ul style="list-style-type: none"> - How batteries can be safely removed - Type of batteries and accumulators included <p>Exception: Where for safety, performance, medical or data integrity reasons continuity of power supply is necessary and requires a permanent connection between the appliance and the battery/accumulator.</p>
Labeling	<p>Wheeled bin symbol on battery and accumulators is mandatory.</p> <p>Note: (Exemptions from the labeling requirements must follow procedure published in Decision 1999/468/EC by the EU Commission.)</p>	 <p>All symbols shall be printed visibly, legibly and indelibly.</p> <p>Wheeled Bin Symbol shall cover at least 3% of the area of the largest side of the battery, accumulator or battery pack, up to maximum size of 5 x 5 cm.</p> <p>In the case of cylindrical cells, the symbol shall cover at least 1,5% of the surface area of the battery or accumulator and shall have a maximum size of 5 x 5 cm.</p> <p>If the size of the battery, accumulator or battery pack is such that the symbol would be small than 0,5 x 0,5 cm, a symbol</p>

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	Chemical symbol, if applicable, is mandatory on batteries and accumulators	measuring at least 1 x 1 cm shall be printed on the packaging. Covering, at least, an area of one quarter of the wheeled bin symbol is the chemical symbol: Hg if content exceeds 0,0005% mercury Cd if content exceeds 0,0002% cadmium Pb if content exceeds 0,0004% lead
Recycling facilities	Certified environmental schemes voluntary Treatment/recycling Location	ISO 14001 and EU parliament regulations 761/2001 Participating in audit schemes. Must meet minimum requirements in Annex III, Part A of directive In or outside EU allowed. - must meet waste shipment regulations. - Provide sound evidence that recycling operation took place under conditions equivalent to requirements of this directive.
Important Directive dates	26 September 2007 28 September 2008 26 September 2009 26 September 2010 26 September 2012 26 September 2016	Common methodology for calculation of annual portable sales to end-user to be established. Directive goes into Effect National Collection schemes must be operating Recycling process must meet efficiencies in Annex III Part B, treatment Part A. Each Member State must prove that they have collection rates of minimum 25% and provide calculation data. Each Member State must prove that they have collection rates of minimum 45% and provide calculation data.

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Penalties	Effective, proportionate and dissuasive	Each EU country to decide penalty type and amount nationally
Prohibitions	<p>a) All batteries or accumulators, whether or not incorporated into appliances, that contain more than 0,0005% of mercury by weight.</p> <p>b) Portable batteries or accumulators, including those incorporated into appliances that contain more than 0,002% of cadmium by weight.</p>	<p>Shall not apply to button cells with mercury content of no more than 2%by weight.</p> <p>Shall not apply to portable batteries and accumulators intended for use in:</p> <p>a) emergency and alarm systems, including emergency lighting b) medical equipment c) cordless power tools (under review)</p>

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Download a copy of the Battery Directive here - www.ce-mark.com/2006_66_ec_Batteries.pdf

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