Lithium Battery Safety overview report

Explaining all safety risks of using lithium batteries How to prevent safety events – what to do or not to do along the battery cycle life How to react if safety event occur Instruction for first aid List of safety equipment nodded at lithium batteries working and storage areas Safety documents

Report Content

Why are batteries dangerous?  
Battery safety events (examples..)  
Battery Failures flow chart  
How Li-Ion Batteries Catch Fire  
Thermal Run Away  
Impact of SOC on Thermal Runaway  
Impact of cell size on thermal runaway  
Gases released in a li-ion battery safety event  
High Voltage Hazards  
Protection against high voltage direct and indirect contact  
Abuse versus Field Failures  
Abuse Tests Reduce Risks – But Not effective for field failures  
The scale problem  
Chain reaction – Failure Propagation  
HEV Module Propagation Test  
Manufacturing (Filed) Failures – Not manageable – Need new safety technology  
Battery safety management  
Safety Approach  
Risks & Medical Damage  
Safety Guidelines: Lithium Cell Acceptance Tests & Storage  
Safety Guidelines: Battery Pack Assembly & Testing  
Safety Guidelines: Lithium Battery Transportation  
Lithium Battery Safety Guidelines: Usage  
Safety Guidelines for Lithium Battery Disposal  
Procedures for Handling a Hot, Leaking, Vented, Exploded Cell  
Fire protection approach  
Lithium battery fires  
Lithium primary battery fire and water  
Li-ion rechargeable battery fire  
Water used for cooling a li-ion battery  
Lithium battery extinguisher selection table  
First Aid: Contact With Electrolyte & Molten Lithium Metal – Eyes  
First Aid: Contact With Electrolyte & Molten Lithium Metal – Skin
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First Aid: Contact with Toxic Gases – Inhalation
First Aid: Ingestion
Working and lab areas Lithium Battery Safety Equipment check list
Warehouse areas Lithium Battery Safety Equipment check list
Lithium Battery Storage Policy
VDL 303 – Lithium batteries
Lithium batteries storage containers
Environmental chambers for battery testing
Safety equipment for battery transportation
Material Safety Data Sheets
Battery Safety Organizations
Battery Safety Standards Table

Contact us for purchasing a copy - shmuel@sdle.co.il
Research files type: Power Point

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