Why does battery heat, fire, and explode? What will happen under such phenomenon?

Secondary battery environmental test

- Lithium ion battery advantages:
  - Small size and portability
  - High energy density
  - Continuous charge and discharge
  - Less harmful materials

Environmental test necessity and test method

- Temperature requirement:
  - Low/High Temp. Performance Test: Any point from -30~30°C (according to the temperature range of battery type and usage)
  - Preservation Test: Any point from -10~70°C (according to the temperature range of battery type and usage)
  - Charge/Discharge Test: Any point from -30~30°C (according to the temperature range of battery type and usage)
  - Transport Test: Vibration requirement of 7~18Hz/1G, 18~200Hz/8G, and 1.6mm-p
  - Impact and Shock requirement: Acceleration 150G and maintain 6s on peak value

Burn somebody directly, or may cause products with battery fire.