



香港特別行政區政府
民航處
Civil Aviation Department
The Government of the Hong Kong Special Administrative Region

Dangerous Goods Advisory Circular DGAC 4/2015

Scooter

It has recently come to the attention of the Dangerous Goods Office that scooter had been incorrectly consigned by shippers under Section II requirements for excepted lithium ion batteries for export via Hong Kong International Airport. Scooter is a general description that also includes self-balancing wheel, self-balancing vehicle or similar wheeled articles containing lithium ion batteries used for personal transportation. The lithium ion batteries for scooter usually contain more than 100 Watt-hour of electrical energy and must be declared as Class 9 dangerous goods when transported by air. The Watt-hour rating is calculated by multiplying the rated capacity in ampere-hours (Ah) by the nominal voltage (V).

For example: $8000\text{mAh} \times 48\text{V} = 384 \text{ Watt-hour}$ (note: $1000\text{mAh} = 1\text{Ah}$)

2. When the lithium ion batteries are installed in the scooter, the correct dangerous goods identifications for air transport are as follow:

UN Number: UN 3171
Proper shipping name: Battery-powered vehicle
Packing Instruction: PI 952

Or

UN Number: UN 3481
Proper shipping name: Lithium ion batteries contained in equipment
Packing Instruction: PI 967 Section I

3. Alternatively, if the lithium ion batteries are not installed in the scooter but are packed inside the same package, the correct dangerous goods identification for air transport is as follow:

UN Number: UN 3481
Proper shipping name: Lithium ion batteries packed with equipment
Packing Instruction: PI 966 Section I

4. Manufacturers of scooter should note that the lithium ion batteries used to power the scooter must be tested to the safety standards of the UN Manual of Tests and Criteria, Part III, subsection 38.3. If the lithium ion batteries are constructed of component lithium ion cells, the lithium ion batteries must be tested separately from the component lithium ion cells.

5. Furthermore, shippers and freight forwarders must have attended and passed a Dangerous Goods Regulations training course within 24 months prior to consigning scooter as Class 9 dangerous goods.

6. The Dangerous Goods Office would also like to remind airlines, issuing carriers' agents and handling agents to exercise extra vigilance when accepting scooter for air transport that are claimed to comply with Section II requirements for excepted lithium batteries. Cargo acceptance personnel are urged to seek confirmation from shippers in case of doubt.

7. Should you have any query about this circular, please contact Safety Officers (Dangerous Goods) at 2910 6981 or 2910 6982.

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An electronic version of this circular can be downloaded at
<http://www.cad.gov.hk/english/DGAC.html>