

**LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3  
OF MANUAL OF TESTS AND CRITERIA**

**TRANSPORTATION INFORMATION**

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|--|--|---|--|
| Name of cell, battery or product manufacturer, as applicable:<br><input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product<br><br>Item Number/Name: <b>CR2450N</b><br>Item Description: <b>Primary Lithium Manganese Dioxide Cell (Li+MnO2 → LiMnO2)</b><br>Nominal Voltage: <b>3V</b>  |  | Cell, battery or product manufacturer's contact information to include address, phone number, email address and website for more information:<br><br><b>Renata SA</b><br><b>Kreuzenstrasse 30</b><br><b>4452 Itingen</b><br><b>Switzerland</b><br><br><b>+41 61 715 75 75 / <a href="mailto:logistics@renata.com">logistics@renata.com</a></b><br><b><a href="http://www.renata.com">www.renata.com</a></b>   |  |
| Name of the test laboratory to include address, phone number, email address and website for more information:<br><br><b>Shanghai Research Institute of Chemical Industry</b><br><b>Testing Centre</b><br><b>Room 101, Building 2</b><br><b>No.345 East Yunling Road</b><br><b>200062 Shanghai</b><br><b>China</b><br><b>+86-21-31015216 / <a href="mailto:xutingmsds@gmail.com">xutingmsds@gmail.com</a></b><br><b><a href="http://www.qhs.cn">http://www.qhs.cn</a></b>   |  | A unique test report identification number:<br><b>1117030305</b>  | Date of the test report:<br><b>20-APR-2017</b> |
| Description of cell or battery to include at a minimum: Lithium ion or Lithium metal cell or battery; Mass; Watt-hour rating, or lithium content; Physical description of the cell/battery:<br><br>Cell / battery Type: <b>Lithium metal</b><br>Cell or Battery <b>Cell</b><br>Lithium contain: <b>0.16 Grams</b><br>Battery Weight <b>5.9 Grams</b>   |  | List of tests conducted and results (i.e., pass/fail):<br><br>Test T.1: Altitude Simulation <b>Pass</b><br>Test T.2: Thermal Test <b>Pass</b><br>Test T.3: Vibration <b>Pass</b><br>Test T.4: Shock <b>Pass</b><br>Test T.5: External short circuit <b>Pass</b><br>Test T.6: Impact/Crush <b>Pass</b><br>Test T.7: Overcharge <b>Not applicable</b><br>Test T.8: Forced discharge <b>Pass</b><br><br>Testing additional comments:                     |  |
| Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3(1) and 38.3.3.(g)):<br><br><b>Not Applicable</b>  | Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:<br><br><b>ST/SG/AC. 10/11/Rev.5/Amend.1&amp;Amend.2 38.3.</b> | For air transport only:<br>Does the cell or battery comply with the 30% State of Charge?<br><br><b>Not Applicable</b>   |  |
| <b>PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN - DGP)</b>  |  |   |  |
| UN Classification:<br><b>UN 3090</b>   | Proper Shipping Name:<br><b>Lithium metal batteries</b>  |   |  |
| Signature with name and title of signatory as an indication of the validity of information provided:<br><br><b>Jürgen Ruther</b><br>Head of Marketing & Sales<br>Member of the Management Board<br><b>Renata SA</b><br><b>Kreuzenstrasse 30</b><br><b>CH-4452 Itingen</b>   |  | This document remains valid as long as no changes, modifications, or additions are made to the model(s) described in this document.<br><br>The model(s) has (have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must be packaged, labeled, and documented according to country and other international regulations for transportation. |  |
| Date document was generated:<br><b>25-NOV-2019</b><br><br><small>Important! The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Renata SA and, should Renata SA consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.</small> |  |   |  |