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

TRANSPORTATION INFORMATION

Name of cell, battery or product manufacturer, as applicable:
- ☑ Cell
- ☐ Battery
- ☐ Product

Item Number/Name: CR2450HT
Item Description: Primary Lithium Manganese Dioxide Cell
(Li+MnO2 → LiMnO2)
Nominal Voltage: 3V

Cell, battery or product manufacturer’s contact information to
include address, phone number, email address and website for
more information:
Renata SA
Kreuzenstrasse 30
4452 Itingen
Switzerland
+41 61 975 75 75 / logistics@renata.com
www.renata.com

Name of the test laboratory to include address, phone number,
email address and website for more information:
Shanghai Research Institute of Chemical Industry
Testing Centre
Room 101, Building 2
No.345 East Yunling Road
200062 Shanghai
China
+86-21-31015216 / xutingmsds@gmail.com
http://www.ghs.cn

List of tests conducted and results (i.e., pass/fail):

- Test T.1: Altitude Simulation  Passed
- Test T.2: Thermal Test  Passed
- Test T.3: Vibration  Passed
- Test T.4: Shock  Passed
- Test T.5: External short circuit  Passed
- Test T.6: Impact/Crush  Passed
- Test T.7: Overcharge  Not applicable
- Test T.8: Forced discharge  Passed

Testing additional comments:

UN Classification:
UN 3090

Proper Shipping Name:
Lithium metal batteries

Reference to assembled battery testing
requirements, if applicable (i.e., 38.3.3(1)
and 38.3.3(g)):
Not Applicable

Reference to the revised edition of the Manual
of Tests and Criteria used and to
amendments thereto, if any:
ST/SG/AC. 10/11/Rev.5/Amend.1&Amend.2 38.3

For air transport only:
Does the cell or battery comply with the 30% State of Charge?
Not Applicable

PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN - DGP)

UN Classification: UN 3090

Proper Shipping Name: Lithium metal batteries

Signature with name and title of signatory
as an indication of the validity of information provided:

Jürgen Ruther
Head of Marketing/CEO
Member of the Management Board

Date document was generated:
25-NOV-2019

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 with merit, may be subject to the prior execution of a nondisclosure agreement.

This document remains valid as long as no changes, modifications, or
additions are made to the model(s) described in this document.
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.