

Gefahrgutinformation/Dangerous Goods Information

Artikelnummer/Article number: **7LF4521-0, 7LF4521-2, 7LF4522-0, 7LF4522-2
7LF4531-0, 7LF4532-0**
Digitale Zeitschaltuhr / digital time switch

Das Produkt enthält

- 1 eingebaute Lithium-Metall-Knopfzelle, die die Voraussetzungen der Sondervorschrift 188 der „UN Recommendations on the Transport Of Dangerous Goods“ erfüllt, insbesondere:
 - Zelle \leq 1 g Lithiumgehalt
 - Zelle entspricht einem Typ, für den nachgewiesen wurde, dass er die Anforderungen jedes zum Testzeitpunkt anwendbaren Tests des UN Manual of Tests and Criteria, Teil III, Unterabschnitt 38.3, Revision 3 Amendment 1 oder einer nachfolgenden Revision und Amendment erfüllt (s. auch Anlage 38.3 Test Summary Report).

Das Produkt ist daher bei Lieferung für die nachfolgend angeführten Gefahrgutvorschriften wie angegeben klassifiziert und ist entsprechend den anwendbaren nationalen und internationalen Gefahrgutvorschriften für die genutzten Verkehrsträger zu befördern.

Bitte beachten Sie für weitere Beförderungen die fortlaufenden Änderungen der Gefahrgutvorschriften sowie ggf. Änderungen am Produkt nach Lieferung.

Falls Angaben zu Notfallmaßnahmen erforderlich sind, finden sich diese im/in den zutreffenden PSDS*.

The product contains

- 1 installed lithium metal button cell meeting the preconditions of Special Provision 188 of the “UN Recommendations on the Transport Of Dangerous Goods”, especially:
 - Cell \leq 1 g lithium content
 - Cell is of a type proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3, Revision 3 Amendment 1 or any subsequent revision and amendment applicable at the date of the type testing (see also attached 38.3 Test Summary Report).

On delivery, the product is therefore classified according to the dangerous goods regulations as mentioned below and has to be transported according to the applicable national and international dangerous goods regulations for the modes of transport used.

Please consider for further transports the continuous changes of the dangerous goods regulations as well as applicable changes of the product after delivery.

If emergency response information is necessary it can be found in the applicable PSDS*.

* PSDS: Produktsicherheitsdatenblatt/Product Safety Data Sheet

Anlage/Attachment: 38.3 Test Summary Report

ADR/RID/ADN: UN 3091 Lithium-Metall-Batterien in Ausrüstungen, 9,
1 Knopfzelle pro Gerät, Voraussetzungen der Sondervorschrift 188 erfüllt
UN 3091 Lithium metal batteries contained in equipment, 9,
1 button cell per equipment, preconditions of Special Provision 188 met

ICAO-TI/IATA-DGR: UN 3091 Lithium metal batteries contained in equipment, 9,
1 button cell per equipment, preconditions of Section II PI 970 met

IMDG Code: UN 3091 Lithium metal batteries contained in equipment, 9,
1 button cell per equipment, preconditions of Special Provision 188 met

Batterie/battery: 1x Renata CR2477N oder/or 1x Panasonic CR2477



**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: <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product Item Number/Name: CR2477N 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 61 715 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		A unique test report identification number: 1117030308	Date of the test report: 11-MAY-2017
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: Cell / battery Type: Lithium metal Cell or Battery Cell Lithium contain: 0.27 Grams Battery Weight 8.3 Grams		List of tests conducted and results (i.e., pass/fail): Test T.1: Altitude Simulation Pass Test T.2: Thermal Test Pass Test T.3: Vibration Pass Test T.4: Shock Pass Test T.5: External short circuit Pass Test T.6: Impact/Crush Pass Test T.7: Overcharge Not applicable Test T.8: Forced discharge Pass Testing additional comments:	
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 & Sales Member of the Management Board <small>Renata SA Kreuzenstrasse 30 CH-4452 Itingen</small>		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.	
Date document was generated: 25-NOV-2019 <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>			

Lithium Battery Test Summary / UN38.3 試験結果要約

Product manufacturer	Panasonic Corporation
Address/住所	1-1 Matsushita-cho, Moriguchi City, Osaka 570-8511, Japan
Telephone/電話番号	+81-6-6994-4560
e-mail	un38.3_microbattery@ml.jp.panasonic.com
URL	https://www.panasonic.com/global/home.html
Test laboratory	Panasonic Corporation
Address/住所	1-1 Matsushita-cho, Moriguchi City, Osaka 570-8511, Japan
Telephone/電話番号	+81-6-6994-4560
e-mail	un38.3_microbattery@ml.jp.panasonic.com
URL	https://www.panasonic.com/global/home.html

Description of Product / 製品情報

Model Number/品番	CR2477
Type/タイプ	Lithium metal cell
Physical description/物理特性	Non-rechargeable, Coin
Mass/質量	10.5 g
Lithium content/リチウム含有量	0.29 g
Watt-hour rating/ワット時定格値	Not applicable
Nominal Voltage/公称電圧	3.0 V
Nominal Capacity/公称容量	1000 mAh

Test Results / 結果

Identification number/番号	CP0020-7
Date of test report/レポート発行日	2009/01/09
Reference edition/参照	UN Manual of Tests and Criteria 4th Amendment 1 amd 2 edition

UN Manual of Tests and Criteria 国連勧告テスト判定基準	Results 結果	Remarks 備考
T1 : Altitude simulation / 高度シミュレーション	Pass / 合格	
T2 : Thermal Test / 温度試験	Pass / 合格	
T3 : Vibration / 振動	Pass / 合格	
T4 : Shock / 衝撃	Pass / 合格	
T5 : External short circuit / 外部短絡	Pass / 合格	
T6 : Impact / 衝突, Crush / 圧壊	Pass / 合格	Impact / 衝突
T7 : Overcharge / 過充電	-	for rechargeable batteries only / 充電式電池のみ
T8 : Forced discharge / 強制放電	Pass / 合格	

Hereby we certify that this model of Lithium battery meets the requirements of each test in the UN Manual of Tests and Criteria Part III, sub-section 38.3.

上記テストは国連勧告テスト(Manual of Tests and Criteria, Part III, sub-section 38.3.)に従い確認された結果であることを証明致します。

Signature: 

Name and Title: Kazuyuki Amano / Manager
Energy Device Business Division