

PRÜFUNGSZUSAMMENFASSUNG FÜR LITHIUM ZELLEN/BATTERIEN UND LIEFERANTENABFRAGE

GEMÄSS UNTERABSCHNITT 38.3 DES UN-PRÜFHANDBUCHS

N/A = nicht zutreffend

1. Name der Zelle / Batterie
Lithium Ionen Polymer Rechargeable Battery Pack

2. Hersteller der Zelle / Batterie	
Name	Tohoku Murata Manufacturing Co.,Ltd.
Adresse	1-1 Shimosugishita,Takakura,Hiwada-machi,Koriyama-shi,Fukushima,963-0531 Ja
Telefon	0081249557770
Email	mdw-ga-comp@murata.com
Website	www.murata.com/en-global/group/tohokumurata

3. Prüflabor	
Name	Murata Energy Device Wuxi Co.,Ltd.
Adresse	No.27, Changjiang Road, New District,Wuxi,Jiangsu Province, 214028 P.R.C.
Telefon	008651085239120
Email	mdw-ga-comp@murata.com
Website	www.murata.com/en-global/group/tohokumurata

4. ID-Nummer und Datum			
Eindeutige Prüfberichtsidentifikations-Nr.	QA-TR-020690	Datum des Prüfberichts	22.05.2020

BESCHREIBUNG DER ZELLE / BATTERIE

5. Markieren Sie den Zell- oder Batterietyp mit "•"			
☐	Lithium-Ionen-Zelle	Lithium-Metall-Zelle	☐
☒	Lithium-Ionen-Batterie	Lithium-Metall-Batterie	☐
☐	Lithium-Hybrid-Batterie		

6. Parameter	Zelle	Batterie
Masse in Gramm (g):		32
Lithium-Ionen: Watt-Stunden-Bewertung (Wh):		5,7
Lithium-Metall: Lithium-Gehalt in Gramm (g):		
Lithium-Hybrid: Lithiumgehalt in Gramm (g) und Watt-Stunden-Bewertung (Wh)		g Wh

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GEMÄSS UNTERABSCHNITT 38.3 DES UN-PRÜFHANDBUCHS

Name der Zelle/Batterie (von Feld 1)

Lithium Ionen Polymer Recharg

7. Physikalische Beschreibung der Zelle / Batterie

LIP1708 Lithium Ionen Polymer Rechargeable Battery Pack

8. Modellnummern

LIP1708

PRÜFUNGEN UND ERGEBNISSE

9. Liste der durchgeführten Prüfungen und Ergebnisse Markieren Sie ‚N/A‘, ‚bestanden‘ oder ‚nicht bestanden‘ mit "•"	N/A	bestanden	nicht bestanden
T1 - Höhensimulation	☐	☒	☐
T2 - Thermische Prüfung	☐	☒	☐
T3 - Schwingung	☐	☒	☐
T4 - Schlag	☐	☒	☐
T5 - Äußerer Kurzschluss	☐	☒	☐
T6 - Aufprall / Quetschung	☐	☒	☐
T7 - Überladung	☐	☒	☐
T8 - Erzwungene Entladung	☐	☒	☐
	☐	☐	☐
	☐	☐	☐

10. Verweis auf Prüfanforderungen für zusammengesetzte Batterien

N/A



11. Verweis auf die verwendete überarbeitete Ausgabe des Handbuchs über Prüfungen und Kriterien und etwaige Änderungen dazu

siehe Anlage

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GEMÄSS UNTERABSCHNITT 38.3 DES UN-PRÜFHANDBUCHS

Name der Zelle/Batterie (von Feld 1)

Lithium Ionen Polymer Recharg

ZUSÄTZLICHE LIEFERANTENABFRAGE

12. Qualitätsmanagementsystem für die Herstellung der Zellen/Batterien Erfolgt die Herstellung der Zelle / Batterie nach einem dokumentierten QMSystem, das den Vorgaben der Vorschriften entspricht?	☒	JA	NEIN	☐
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13. Sind folgende Kenngrößen überschritten? Lithium-Ionen-Zelle: mehr als 20 Wh Lithium-Ionen-Batterie: mehr als 100 Wh Lithium-Metall-Zelle: mehr als 1 g Lithium Lithium-Metall-Batterie: mehr als 2 g Lithium Lithium-Hybrid-Batterie: Mehr als 1,5 g Lithium und/oder mehr als 10 Wh	☐	JA	NEIN	☒
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Punkt 14-16 müssen beantwortet werden, wenn die Kenngrößen in Punkt 13 überschritten sind:

14. Ist jede Zelle / Batterie mit einer Schutzeinrichtung gegen inneren Überdruck versehen oder so ausgelegt, dass ein Gewaltbruch unter normalen Beförderungsbedingungen verhindert wird?	☐	JA	NEIN	☐
15. Ist jede Zelle / Batterie mit einer wirksamen Vorrichtung zur Verhinderung von Kurzschlüssen ausgerüstet?	☐	JA	NEIN	☐
16. Ist jede Batterie mit parallel geschalteten Zellen oder parallel geschalteten Reihen von Zellen, mit wirksamen Einrichtungen ausgerüstet, die einen gefährlichen Rückstrom verhindern (z. B. Dioden, Sicherungen usw.)?	☐	N/A	JA	NEIN

17. Nur für Lithium-Ionen-Zellen/-Batterien und Lithium-Polymer-Zellen/-Batterien im Luftverkehr:
Ladezustand (SoC) für UN 3480

Ladezustand (SoC) max. 30 %	☒	JA	NEIN	☐
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ZELLEN/BATTERIEN, DIE IN GERÄTEN EINGEBAUT SIND

18. Punkt 18 muss beantwortet werden, wenn Zellen / Batterien in Geräten eingebaut sind:

18.a) Nur Knopfzellen enthalten?	☐	JA	NEIN	☒
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18.b) Anzahl enthaltener Zellen (andere als Knopfzellen) bzw. Batterien pro Gerät

1	Enthaltene Zellen pro Gerät	Enthaltene Batterien pro Gerät	☐
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Wenn das Gerät während des Transportes absichtlich aktiv/eingeschaltet ist, z.B. Datenlogger:

18.c) Bestätigung, dass das Gerät keine gefährliche Hitzeentwicklung erzeugen kann	☐	N/A	☒	JA	NEIN	☐
18.d) Bestätigung, dass das Gerät für den Versand im Luftverkehr die festgelegten Standards für elektromagnetische Strahlung gemäß DO-160 erfüllt	☒	N/A	☐	JA	NEIN	☐

19. Ort, Datum	20. Name, Vorname	21. Firmenstempel und Unterschrift des Lieferanten
Erfurt, 23.10.2020	Wilk, Christina	

Document of Battery Used in Product

**Sony
Interactive
Entertainment**

Product Category : **Wireless Controller (DualSense)**
Model Name : **CFI-ZCT1* series**
One or more alphanumeric characters are listed in *.
Brand : **Sony Interactive Entertainment Inc.**

This document guarantees that this product's battery is as follows.

IDENTITY Model Name (Brand) : LIP1708(Sony Corporation)

The battery MSDS is attached separately.

Lithium ion batteries are not subject to dangerous goods regulation for the purpose of transportation by the U.S. Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) or the International Maritime Dangerous Goods regulations (IMDG). With regard to air transport, the International Civil Aviation Organization (ICAO) Packing Instruction 967 Section II complies with the Recommendation as is; further, the International Air Transport Association (IATA) adopts ICAO Packing Instruction 967 Section II. In addition, the regulations of the US Department of Transportation for land, sea and air transportation are based on the UN Recommendations.

*With reference to the IATA Dangerous Goods Regulations 61th Edition Effective 1 January 2020.

MANUFACTURER'S INFORMATION

Supplier's Name : Sony Interactive Entertainment Inc.
Supplier's Address : 1-7-1 Konan, Minato-Ku, Tokyo 108-0075 Japan
Telephone : +81-3-6748-6306
Date Prepared : 25 May 2020
Signature of Paper :

SONY INTERACTIVE ENTERTAINMENT INC.

Tsunya Kobayashi

**VICE PRESIDENT, COMPLIANCE
LEGAL & BUSINESS AFFAIRS DEPT.**

**DISCLAIMER**

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Tohoku Murata Manufacturing Co., Ltd.

1-1 Shimosugishita, Takakura, Hiwada-machi, Koriyama-shi, Fukushima, 963-0531 Japan

Phone: +81-24-955-7770 / Fax: +81-24-955-7884

SAFETY DATA SHEET

1. Product and Company Identification

Product Information

Company Name : Sony Corporation.
Product Category : Lithium Ion Polymer Rechargeable Battery Pack (Single Cell Battery)
Model Name : LIP1708
Rated Capacity : 1560 mAh (5.7 Wh)
Average Operating Voltage : 3.65 V

Company Identification

Supplier's Name : Tohoku Murata Manufacturing Co., Ltd.
Supplier's Address : 1-1 Shimosugishita, Takakura, Hiwada-machi, Koriyama-shi, Fukushima,
963-0531 Japan
Information Telephone : +81-24-955-7770
Date Prepared : May. 22, 2020
Signature of Paper : 

2. Hazard Identification

Class Name : Not applicable for regulated class
Hazard : It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage, move the battery from fire immediately.
Toxicity : Vapor generated from burning batteries, may make eyes, skin and throat irritate.

3. Composition / Information on Ingredients

IMPORTANT NOTE:

The battery pack uses one US623856E1S lithium ion polymer rechargeable cell and control circuit on the PWB.
The battery pack should not be opened or burned since the following ingredients contained within the cell that could be harmful under some circumstance if exposed or misused.
The cell contains neither metallic lithium nor lithium alloy.

Common chemical name / General name	CAS number	Concentration / Concentration range
Lithium Cobalt Oxides (active material)	12190-79-3	41%
Polyvinylidene Fluoride(binder)	24937-79-9	2%
Carbon(active material)	7440-44-0	20%
Lithium hexafluorophosphate	21324-40-3	2%
Ethylene carbonate	96-49-1	5%
Propylene carbonate	108-32-7	5%
Aluminum	7429-90-5	7%
Copper	7440-50-8	12%
Polyethylene	9002-88-4	6%

Enclosure : Plastic (PC)
UN number : UN3480
Watt-hour rating : 5.7 Wh for battery pack

4. First Aid Measures

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

- Eye contact : Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing, and call a doctor. If appropriate procedures are not taken, this may cause an eye irritation.
- Skin contact : Wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin.
- Inhalation : Remove to fresh air immediately, and call a doctor.

5. Fire Fighting Measures

- Use specified extinguishers (gas, foam, powder) and extinguishing system under the Fire Defense Law.
- Since corrosive gas may be produced at the time of fire extinguishing, use an air inhalator when danger is predicted.
- Use a large amount of water as a supportive measure in order to get cooling effect if needed. (Indoor/outdoor fire hydrant)
- Carry away flammable materials immediately in case of fire.
- Move batteries to a safer place immediately in case of fire.

6. Accidental Release Measures

- Wipe off with dry cloth
- Keep away from fire
- Wear safety goggles, safety gloves as needed

7. Precautions for Safe Handling and Use

- Storage : Store within the recommended limit of -20°C to 45°C (-4°F to 113°F), well-ventilated area. Do not expose to high temperature (60°C/140°F). Since short circuit can cause burn hazard or gas release, do not store with metal jewelry, metal covered tables, or metal belt.
- Handling : Do not disassemble, remodel, or solder. Do not short + and - terminals with a metal. Do not open the battery pack.
- Charging : Charge within the limits of 0°C to 60°C (32°F to 140°F) temperature. Charge with specified charger designed for this battery pack.
- Discharging : Discharge within the limits of -10°C to 60°C (14°F to 140°F) temperature.
- Disposal : Dispose in accordance with applicable federal, state and local regulations.
- Caution : Do not incinerate. Do not disassemble. Do not expose to high temperatures. (140°F/60°C) Do not impact, pierce or crush the battery. Use specified charger only. Dispose of properly.

8. Exposure Controls/Personal protection (In case electrolyte is leaked from battery)

- Acceptable concentration : Not specified in ACGIH.
- Facilities : Provide appropriate ventilation such as local ventilation system in the storage.
- Protective clothing : Gas mask for organic gases, safety goggle, safety glove.

9. Physical and chemical Properties

- Appearance : Lithium ion polymer rechargeable cells are set in a resin case.
- Average Operating Voltage : 3.65 V

10. Stability and Reactivity

External short-circuit, deformation by crush, high temperature (over 100°C) exposure of a battery cause generation of heat and ignition.

11. Toxicological Information

- Acute toxicity : No information as a battery
- Local effects : No information as a battery

12. Ecological Information

When exhausted battery is buried in the ground, corrosion may be caused on the outer case of battery and electrolyte may be oozed. There is no information on environmental influence.

13. Disposal considerations

When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries in disorder. Dispose in accordance with applicable federal, state and local regulations

14. Transport information

- When a number of batteries are transported by ship, vehicle and railroad, avoid high temperature and dew condensation.
- Avoid transportation which may cause damage of package.
- Lithium ion batteries are not subject to dangerous goods regulation for the purpose of transportation by the International Maritime Dangerous Goods regulations(IMDG). For Lithium ion batteries, the Watt-hour rating is no more than 20Wh/cell and 100Wh/battery pack can be treated as "non-dangerous goods" by the United Nations Recommendations on the Transport of Dangerous Goods/Special Provision 188, provided that the products are prevented from being short-circuited with each other and are packaged in an appropriate condition which satisfies Packing Group II performance level.
- IATA (International Air Transport Association): Dangerous Goods Regulation Packing Instruction 965 (Lithium ion or lithium polymer cells and batteries without electronic equipment) With effect 1 April 2016: Lithium ion cells and batteries must be offered for transport at a state of charge not exceeding 30 per cent of their rated capacity. UN 3480, PI 965, Section IA and IB and II will be restricted to carriage on cargo aircraft. All packages must bear the Cargo Aircraft Only label in addition to the other marks and labels required by the Regulations.

Section II requirements apply to lithium ion cells with a Watt-hour rating not exceeding 20Wh and lithium ion batteries with a Watt-hour rating not exceeding 100Wh packed in quantities that within the allowance permitted in Section II, Table 965-II.

TABLE 965-II

Contents	Lithium ion cells and/or batteries with a Watt-hour rating of 2.7Wh or less	Lithium ion cells with a Watt-hour rating of more than 2.7Wh but not more than 20Wh	Lithium ion batteries with a Watt-hour rating of more than 2.7Wh but not more than 100Wh
Maximum number of cells/batteries per package	No limit	8 cells	2 Batteries
Maximum net quantity per package	2.5 kg	N/A	N/A

Lithium ion cells and batteries meeting the requirements in this section are not subject to other additional requirements of these Regulations except for:

- each cell and battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3;
- cells and batteries must be manufactured under a quality management program;
- for batteries, The Watt-hour rating must be marked on the outside of the battery case;
- Each package must be capable of withstanding a 1.2m drop test in any orientation without:
 - damage to cells or batteries contained therein;
 - shifting of the contents so as to allow battery to battery (or cell to cell) contact;
 - release of contents.
- Each package must be marked with the lithium battery mark and the cargo aircraft only Label.
- A shipper is not permitted to offer for transport more than one package prepared according to Section II in any single consignment.

Section IB requirements apply to lithium ion cells with a Watt-hour rating not exceeding 20Wh and lithium ion batteries with a Watt-hour rating not exceeding 100Wh packed in quantities that exceed the allowance permitted in Section II, Table 965-II.

Quantities of lithium ion cells or batteries that exceed the allowance permitted in Section II, Table 965-II must be assigned to Class 9 and are subject to all of the applicable provisions of Regulation.

Even classified as lithium batteries packed with equipment (UN3481), IATA Dangerous Goods Regulations packing instruction 966 is applied.

Even classified as lithium batteries installed in equipment (UN3481), IATA Dangerous Goods Regulations packing instruction 967 is applied.

15. Regulatory information

- IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2018 Edition
- ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2019-2020 Edition
- IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 61th Edition

16. Other Information

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Document of Battery Used in Product

Product Category : Computer Entertainment System "PlayStation5" with Standard Acc'y

Model Name : CAU-10* Series
One or more alphanumeric characters are listed in *.

Konsole

Brand : Sony Interactive Entertainment Inc.

This document guarantees that this product's battery is as follows.

IDENTITY **Model Name (Brand)** : CR2032 (Panasonic Corporation) *1
: CR2032 (Mitsubishi Electric Home Appliance Co., Ltd.) *1

Konsole

Following battery is incorporated to the bundled wireless controller, CFI-ZCT1* series

: LIP1708 (Sony Corporation) *2

Controller

The battery MSDS is attached separately.

Lithium Manganese Dioxide batteries(*1 and Lithium ion batteries(*2 are not subject to dangerous goods regulation for the purpose of transportation by the U.S. Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) or the International Maritime Dangerous Goods regulations (IMDG).

*With reference to the IATA Dangerous Goods Regulations 61 Edition Effective 1 January 2020

MANUFACTURER'S INFORMATION

Supplier's Name : Sony Interactive Entertainment Inc.
Supplier's Address : 1-7-1 Konan, Minato-Ku, Tokyo 108-0075 Japan
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Signature of Paper

高田 利貞

Toshisada Takada
Vice President, Electrical Design Dept.,
Hardware Design Division

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