

Beiblatt zu Panasonic Akkus 110065776NH-PSDS EN (**Bestandteil der Notlichtmodule** zu Steinel R-Serie-Leuchten)

Produktidentifikation:

Handelsname	Notlicht-Modul R-Serie
Verwendungszweck	Notlichtmodul für die RS PRO Connect R-Leuchten. Beinhaltet 3x AA Nickel-Metall Hybrid Akkus.

Lieferant in der Schweiz: nevalux AG
Neugrütstrasse 2
CH-8610 Uster
Tel: 044 508 78 78
info@nevalux.swiss

Nationale Notfallnummer: **145** (24h erreichbar, Tox Info Suisse, Zürich; für Anrufe aus der Schweiz, Auskünfte auf Deutsch, Französisch und Italienisch)

Informationen für die Verwender betreffend:

Abschnitt 7

Handhabung:

- *Beim Verpacken der Batterien dürfen sich die Batteriepole nicht gegenseitig oder mit anderen Metallen berühren. Verwenden Sie Trennwände in der Verpackung oder separate Kunststoffbeutel, damit einzelne Batterien nicht miteinander in Kontakt kommen.*
- *Verwenden Sie stabile Verpackungsmaterialien, damit diese bei Erschütterungen, Stößen, Herunterfallen oder Stapeln während des Transports nicht beschädigt werden.*
- *Keine Kurzschlüsse verursachen, nicht verformen, nicht ins Feuer werfen und nicht zerlegen.*
- *Nur mit einem dafür vorgesehenen Ladegerät oder unter den spezifizierten Ladebedingungen aufladen.*
- *Keine unterschiedlichen Batterietypen mischen.*
- *Nicht direkt auf die Batterie löten.*
- *Batterie korrekt in das elektrische Gerät einsetzen.*

Lagerung:

- *Kein Eindringen von Wasser in Verpackungen während Lagerung und Transport zulassen.*
- *Nicht an Orten mit hohen Temperaturen oder direkter Sonneneinstrahlung lagern.*

- *Orte mit hoher Luftfeuchtigkeit vermeiden. Keine Kondensation, keinen Regen oder Frost zulassen.*

Abschnitt 8

Schutzausrüstung (im Falle von Elektrolyt-Leckage):

- **Atenschutz:** *In den meisten Fällen nicht erforderlich.*
- **Handschutz:** *Schutzhandschuhe tragen.*
- **Augenschutz:** *Beim Umgang mit diesem Produkt ist eine Schutzbrille zu tragen.*
- **Haut- und Körperschutz:** *Um Kontakt zu vermeiden, geeignete undurchlässige Kleidung tragen, z. B. Stiefel oder Ganzkörperschutzanzüge.*

Abschnitt 13

Wenn die Batterie verbraucht ist, muss sie gemäß den Vorschriften der jeweiligen lokalen Behörde entsorgt werden.

This product is used in a hermetically sealed state. So, it is not an object of the SDS system. This document is provided to customers as reference information for the safe handling of the product. The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Panasonic Corporation makes no warranty expressed or implied.

PRODUCT SAFETY DATA SHEET

1 Chemical product and company identification

Name of Product : Nickel-Metal Hydride Battery
 Name of Company : Panasonic Energy Co., Ltd.
 Address : 1-1 Matsushita-cho, Moriguchi-city, Osaka, 570-8511, Japan
 Emergency Contact : +81-80-9932-3190 (JST Working hours)
 +81-6-6991-1141 (Holiday)

2 Hazards identification

GHS Classification : No applicable
 Toxicity : When the leaked liquid adheres to the skin, it may cause the damage of the skin. When it is gotten in eye, it may cause the damage of eye such as losing sight.
 Hazard : There is the risk of explosion if batteries are disposed in fire, heated above 100 degree C. Stacking or jumbling batteries may cause external short circuits, heat generation and explosion.

3 Composition/information of ingredients

Material	CAS RN	Content (%)
Nickel Hydroxide	12054-48-7	15-30
Cobalt Hydroxide	21041-93-0	
Hydrogen absorbing alloy	7440-02-0(Ni) 7440-48-4(Co) 7439-96-5(Mn) 7429-90-5(Al)	20-40
Nickel	7440-02-0	
Iron	7439-89-6	
Potassium Hydroxide	1310-58-3	
Sodium Hydroxide	1310-73-2	
Lithium Hydroxide	1310-65-2	

4 First aid measures (in case of electrolyte leakage from the battery)

Eye contact by electrolyte : Do not rub eyes. Wash immediately with large amount of clean water such as tap water 15 minutes or more then receive the ophthalmologist's treatment promptly. It may cause such as losing sight when the right procedure is not taken.
 Skin contact by electrolyte : Wash the affected area under tepid running water using a mild soap. If appropriate procedures are not taken, this may cause sores on the skin. Get medical attention if irritation develops or persists.

- Ingestion of electrolyte : Wash in the mouth immediately with large amount of clean water and make the sufferer drink a lot of water.
Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
- Inhalation of electrolyte fume Remove to fresh air immediately. Take a medical treatment

5 Firefighting measures

Extinguishing Media

Dry sand, chemical powder fire extinguisher.

Specific Fire-Fighting Methods

Be sure on the windward to extinguish the fire, since vapor may make eyes, nose and throat irritate, Wear the respiratory protection equipment in some cases.

6 Accidental release measures (in case of electrolyte leakage from the battery)

Health Considerations and Protective Equipment

Wear proper protective equipment.

Environmental Precautions

Prevent spills from entering sewers, watercourses.

Spill Clean-Up Procedures

Collect material to minimize dust generation ; use wet mop, damp sponge. Place collected material into a suitable container for disposal.

7 Handling and storage

Handling

- z When packing the batteries, do not allow battery terminals to contact each other, or contact with other metals. Be sure to pack batteries by providing partitions in the packaging box, or in a separate plastic bag so that the single batteries are not mixed together.
- z Use strong material for packaging boxes so that they will not be damaged by vibration, impact, dropping and stacking during their transportation.
- z Do not short-circuit, deform, throw into fire or disassemble.
- z Use only dedicated charger or charge according to the conditions specified.
- z Do not mix different type of batteries.
- z Do not solder directly onto batteries.
- z Insert the battery correctly in electrical equipment.

Storage

- z Do not let water penetrate into packaging boxes during their storage and transportation.
- z Do not store the battery in places of the high temperature or under direct sunlight.
- z Please also avoid the places of high humidity. Be sure not to expose the battery to condensation, rain or frozen condition

8. Exposure controls and personal protection

Acceptable concentration : Not specified about Nickel-Metal Hydride Battery.

Facilities : Nothing in particular.

Protective Equipment (in case of electrolyte leakage from the battery)

Respiratory Protection : For most condition no respiratory protection.

Hand Protection : Safety gloves.

Eye Protection : Safety glasses must be worn when handling this product.

Skin and Body Protection : To prevent any contact, wear impervious clothing such as boots or whole body suits as appropriate.

9. Physical and chemical properties

- Appearance : Nickel-Metal hydride battery is stored in the plastic resin case or tube.
Nominal Voltage : The voltage value depends on the number of built-in batteries used in battery pack.

10. Stability and reactivity

Since batteries utilize a chemical reaction they are actually considered a chemical product. As such, battery performance will deteriorate over time even if stored for a long period of time without being used. In addition, the various usage conditions such as discharge, ambient temperature, etc. are not maintained within the specified ranges the life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage.

11. Toxicological information

Battery is not harmful as its ingredients are in a hermetically sealed state.

12. Ecological information

In case of the worn out battery was disposed in land, the battery case may be corroded, and leak electrolyte. However, there is no environmental impact information.

Mercury (Hg), Cadmium (Cd) and Lead (Pb) are not used in cell.

13. Disposal considerations

When the battery is worn out, dispose of it under the ordinance of each local government.

14. Transport information**Handling**

- During the transportation of a large amount of batteries by ship, trailer or railway, do not leave them in the places of high temperatures and do not allow them to be exposed to dew condensation.
- Avoid transportation with the possibility of the collapse of cargo piles and the packing damage.

Air Transport

Non-Dangerous Goods. For air transportation, the words "Not Restricted, as per Special Provision A199" must be included in the description of the substance on the Air Waybill, when an Air Waybill is issued.

Marine Transport

UN number: UN3496 see SP963

1. Nickel-metal hydride cells or batteries packed with or contained in equipment and nickel-metal hydride button cells are Non-Dangerous Goods.
2. All other nickel-metal hydride cells or batteries shall be securely packed and protected from short circuit. They are Non-Dangerous Goods provided they are loaded in a cargo transport unit in a total quantity of less than 100kg gross mass.
3. When loaded in cargo transport unit in a total quantity of 100kg gross mass or more, they are Dangerous Goods (Class 9)

15. Regulatory information

- ž EU Battery Directive (2006/66/EC, 2013/56/EU)
- ž EU Battery Regulation (Regulation (EU) 2023/1542 of the European Parliament and of the Council)
- ž EU REACH Regulation (Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals)
- ž Act on Preventing Environmental Pollution of Mercury (Japan)

16. Other information

This PSDS is provided to customers as reference information in order to handle batteries safely. It is necessary for the customer to take appropriate measures depending on the actual situation such as the individual handling, based on this information.

References

- ž IATA Dangerous Goods Regulations Edition 65 (IATA DGR)
- ž IMO International Maritime Dangerous Goods Code 2022 Edition (IMDG Code)

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