

Declaration



BARTEC GmbH · Max-Eyth-Straße 16 · 97980 Bad Mergentheim · Germany

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Herewith we, BARTEC GmbH, declare

that we use type no. 17-A1Z0-0001 and 17-A1Z0-0002 as battery pack for MC 92N0^{ex}-IS series type numbers 17-A1Ax-xxxx/xxxxxxxx.

The battery pack includes two rechargeable Lithium Ion battery cells manufactured by Sanyo Electric Co., Ltd., in 2p (parallel) configuration.

Battery pack is manufactured by Enertech and assembled by BARTEC.

Battery packs related to product:

MC92N0^{ex}-IS series (type no.'s 17-A1Ax-xxxx/xxxxxxxx).

Type number:	17-A1Z0-0001
SAP:	239503
	(Battery for ATEX/IECEX certified MC 92N0 ^{ex} series) (Built from battery pack type 03-9920-0020 (ATEX))
Technical data:	Lithium Ion Battery 7.4 V / 2400 mAh / 17.76 Wh
Weight:	approx. 0.135 kg
Dimension:	75 x 49 x 25 mm
UN 38.3 Test Report:	Passed
Proper Shipping Name:	Lithium Ion Batteries
Class:	9
UN Classification 3480:	Shipping of Lithium ion batteries (limited to a maximum of 30% SoC) Shipping of single batteries without equipment.
UN Classification 3481:	Shipping of Lithium ion batteries: "packed with equipment" or "contained in equipment"

Type number:	17-A1Z0-0002
SAP:	239522
	(Battery for UL Division 1 certified MC 92N0 ^{ex} series) (Built from battery pack type 03-9920-0021 (UL))
Technical data:	Lithium Ion Battery 7.4 V / 2400 mAh / 17.76 Wh
Weight:	approx. 0.135 kg
Dimension:	75 x 49 x 25 mm
UN 38.3 Test Report:	Passed
Proper Shipping Name:	Lithium Ion Batteries
Class:	9
UN Classification 3480:	Shipping of Lithium ion batteries (limited to a maximum of 30% SoC) Shipping of single batteries without equipment.
UN Classification 3481:	Shipping of Lithium ion batteries: "packed with equipment" or "contained in equipment"

BARTEC GmbH

Max-Eyth-Straße 16
97980 Bad Mergentheim

District court: Ulm HRB 723429
Tax No.: 52001/09044
VAT No.: DE 262 57 03 04

Bank details

Sparkasse Tauberfranken
SWIFT:
SOLADES1TBB
IBAN/EUR:
DE97 6735 2565 0000 0226 99
IBAN/USD:
DE23 6735 2565 0070 6247 05

Management Board

Dr. Martin Scheffter (CEO)
Gerhard Bickmann (CFO)
Dr. Jörg Dalhöfer (COO)
Xavier Hamer (CCO)

Declaration

BARTEC

Related to this declaration is following documentation:

- Sanyo Electric Co., Ltd. safety datasheet for product
(Sanyo reference number: SDS-IBT-00026, date: Dec. 15th, 2015)
- Enertech Declaration of Non-Use of Mercury_ATEX&UL_140507
(sign date May. 07th, 2014)

Bad Mergentheim, May, 24th 2018

BARTEC GmbH

i. V.



Benedikt Eckert

Product Line Manager Enterprise Mobility

Type number:

17-A1Z0-0001 and 17-A1Z0-0002

Sanyo Electric Co., Ltd. safety datasheet for
product

(Sanyo reference number: SDS-IBT-00026, date:
Dec. 15th, 2015)

Safety data sheet for product

1. PRODUCT AND COMPANY IDENTIFICATION

- Product name: Lithium ion rechargeable battery cell
- Product code: None
(All models Sanyo manufactured and whose capacity is less than or equal to 5.4Ah, including the cell branded as Panasonic, excluding the cell whose shape is prismatic and two or more side of short / middle / long side excess 12mm/85mm/110mm.)
- Company name: Sanyo Electric Co., Ltd., Panasonic group
- Address: 222-1 , Kaminaizen, Sumoto City, Hyogo, Japan
- Telephone number: +81-799-24-4111
- Fax number: +81-799-23-2879
- Emergency telephone number: [Weekday] +81-799-23-3931 [Night and holiday] +81-799-24-4131

2. HAZARDS IDENTIFICATION

For the battery cell, chemical materials are stored in a hermetically sealed metal or metal laminated plastic case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials' leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release vent will be operated. The battery cell case will be breached at the extreme, hazardous materials may be released.

Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted.

- GHS classification: Not available
(This product is outside the scope of GHS system since it's considered as an "article".)
- Most important hazard and effects
Human health effects:
 - Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.
 - Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and stimulation on the skin.
 - Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and stimulation on the eye. Especially, substance that causes a strong inflammation of the eyes is contained.Environmental effects: Since a battery cell remains in the environment, do not throw out it into the environment.
- Specific hazards:
 - If the electrolyte contacts with water, it will generate detrimental hydrogen fluoride.
 - Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

3. COMPOSITION / INFORMATION ON INGREDIENTS

- Substance or preparation: Preparation
- Information about the chemical nature of product: *1

Portion	Material name	Concentration range (wt %)
Positive electrode	Lithium transition metal oxidate (Li[M] _m [O] _n *2)	20~60
Positive electrode's base	Aluminum	1~10
Negative electrode	Carbon	10~30
Negative electrode's base	Copper	1~15
Electrolyte	Organic electrolyte principally involves ester carbonate	5~25
Outer case	Aluminum, iron, aluminum laminated plastic	1~30

*1 Not every product includes all of these materials.

*2 The letter M means transition metal and candidates of M are Co, Mn, Ni and Al. One compound includes one or more of these metals and one product includes one or more of the compounds. The letter m and n means the number of atoms.

4. FIRST-AID MEASURES**Spilled internal cell materials**

- Inhalation:
Make the victim blow his/her nose, gargle. Seek medical attention if necessary.
- Skin contact:
Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.
- Eye contact:
Do not rub one's eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

A battery cell and spilled internal cell materials

- Ingestion:
Make the victim vomit. When it is impossible or the feeling is not well after vomiting, seek medical attention.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Plenty of water, carbon dioxide gas, nitrogen gas, chemical powder fire extinguishing medium and fire foam.
- Specific hazards: Corrosive gas may be emitted during fire.
- Specific methods of fire-fighting: When the battery burns with other combustibles simultaneously, take fire-extinguishing method which correspond to the combustibles. Extinguish a fire from the windward as much as possible.
- Special protective equipment for firefighters:
 - Respiratory protection: Respiratory equipment of a gas cylinder style or protection-against-dust mask
 - Hand protection: Protective gloves
 - Eye protection: Goggle or protective glasses designed to protect against liquid splashes
 - Skin and body protection: Protective cloth

6. ACCIDENTAL RELEASE MEASURES

Spilled internal cell materials, such as electrolyte leaked from a battery cell, are carefully dealt with according to the followings.

- Precautions for human body:
Remove spilled materials with protective equipment (protective glasses and protective gloves). Do not inhale the gas as much as possible. Moreover, avoid touching with as much as possible.
- Environmental precautions: Do not throw out into the environment.
- Method of cleaning up: The spilled solids are put into a container. The leaked place is wiped off with dry cloth.
- Prevention of secondary hazards: Avoid re-scattering. Do not bring the collected materials close to fire.

7. HANDLING AND STORAGE

- Handling suggestions
 - Do not connect the positive terminal to the negative terminal with electrical wire or chain.
 - Avoid polarity reverse connection when installing the battery to an instrument.
 - Do not wet the battery with water, seawater, drink or acid; or expose to strong oxidizer.
 - Do not damage or remove the external tube.
 - Keep the battery away from heat and fire.
 - Do not disassemble or reconstruct the battery; or solder the battery directly.
 - Do not give a mechanical shock or deform.
 - Do not use unauthorized charger or other charging method. Terminate charging when the charging process doesn't end within specified time.
- Storage
 - Do not store the battery with metalware, water, seawater, strong acid or strong oxidizer.
 - Make the charge amount 30~50% then store at room temperature or less (temperature= -20~35 degree C) in a dry (humidity: 45~85%) place. Avoid direct sunlight, high temperature, and high humidity.
 - Use insulative and adequately strong packaging material to prevent short circuit between positive and negative terminal when the packaging breaks during normal handling. Do not use conductive or easy to break packaging material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (WHEN THE ELECTROLYTE LEAKS)

- Control parameters
 - ACGIH has not been mentioned control parameter of electrolyte.
- Personal protective equipment
 - Respiratory protection: Respirator with air cylinder, dust mask
 - Hand protection: Protective gloves
 - Eye protection: Goggles or protective glasses designed to protect against liquid splashes
 - Skin and body protection: Working clothes with long sleeve and long trousers

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance
 - Physical state: Solid
 - Form: Cylindrical or Prismatic or Pouch (laminated)
 - Color: Metallic color or black(without tube if it has tube)
 - Odor: No odor

10. STABILITY AND REACTIVITY

- Stability: Stable under normal use
- Hazardous reactions occurring under specific conditions
 - Conditions to avoid: When a battery cell is exposed to an external short-circuit, crushes, deformation, high temperature above 100 degree C, it will be the cause of heat generation and ignition. Direct sunlight and high humidity.
 - Materials to avoid: Conductive materials, water, seawater, strong oxidizers and strong acids.
 - Hazardous decomposition products: Acrid or harmful gas is emitted during fire.

11. TOXICOLOGICAL INFORMATION

Organic Electrolyte

- Acute toxicity:
 - LD₅₀, oral - Rat 2,000mg/kg or more
- Irritating nature: Irritative to skin and eye

12. ECOLOGICAL INFORMATION

- Persistence/degradability:
 - Since a battery cell and the internal materials remain in the environment, do not bury or throw out into the environment.

13. DISPOSAL CONSIDERATIONS

- Recommended methods for safe and environmentally preferred disposal:

Product (waste from residues)

Specified collection or disposal of lithium ion battery is required by the law like as "battery control law" in several nations. Collection or recycle of the battery is mainly imposed on battery's manufacturer or importer in the nations recycle is required.

Contaminated packaging

Neither a container nor packing is contaminated during normal use. When internal materials leaked from a battery cell contaminates, dispose as industrial wastes subject to special control.

14. TRANSPORT INFORMATION

In the case of transportation, avoid exposure to high temperature and prevent the formation of any condensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

UN regulation

- UN number: 3480 (3481 when the battery is contained in equipment or packed with equipment)
- Proper shipping name:
Lithium ion batteries ("lithium ion batteries contained in equipment" or "lithium ion batteries packed with equipment")
- Class: 9 *

** Although this product meets the criteria of "dangerous goods" and are classified as "lithium ion batteries", depending on the battery's total capacity in the packaging, etc., they may not be subject to the fully regulated provisions.*

Regulation depends on region and transportation mode

- Worldwide - Air transportation:
ICAO/IATA-DGR [packing instruction 965 section IB or II]
(When shipping batteries "packed with" or "contained in" equipment, use packing instruction 966 or 967 as appropriate.)
- Worldwide - Ocean transportation:
IMO-IMDG Code [special provision 188]
- Europe - Ground transportation:
ADR [special provision 188]

** Instructions or provisions in the box brackets are conditions to make the battery cell exempted from full regulation.*

15. REGULATORY INFORMATION

- Regulations specifically applicable to the product:
Wastes Disposal and Public Cleaning Law [Japan]
Law for Promotion of Effective Utilization of resources [Japan]
US Department of Transportation 49 Code of Federal Regulations [USA]

** About overlapping regulations, please refer to Section 14-TRANSPORT INFORMATION.*

16. OTHER INFORMATION

- This safety data sheet is offered an agency who handles this product to handle it safely.
- The agency should utilize this safety data sheet effectively (put it up, educate person in charge) and take proper measures.
- ***The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.***
- This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Reference

Dangerous Goods Regulations – 57th Edition Effective 1 January 2016: International Air Transport Association (IATA)

IMDG Code – 2014 Edition: International Maritime Organization (IMO)

The European Agreement concerning the International Carriage of Dangerous Goods by Road – 2015:

The United Nations Economic Commission for Europe (UNECE)

First edition: Apr. 28, 2010
Prepared and approved by: Technology Planning Department
Rechargeable Battery Business Division
Sanyo Electric Co., Ltd.
Panasonic group

Type number:

17-A1Z0-0001 and 17-A1Z0-0002

Enertech Declaration of Non-Use of
Mercury_ATEX&UL_140507
(sign date May. 07th, 2014)



Declaration of Non-Use of Mercury

To : Bartec GmbH

From : Enertech International, Inc. (“Company”)

The Company hereby declares that the Company’s products that are delivered to ‘Bartec GmbH’ do not contain Mercury.

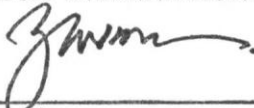
We certify that these packs meet the environment regulations in the People’s Republic of China for battery products.

- Product Type : Li-ion Rechargeable Battery Pack
- Part No : 03-9920-0020(ATEX) & 03-9920-0021(UL)
- Country of Origin : South Korea
- Manufacturer : Enertech International, Inc.

The undersigned is an authorized representative of the Company.

Signature :

ENERTECH INTERNATIONAL INC.



Representative / Tae-Hee Yoon
Director

Name : Tae-Hee Yoon

Position : Representative Director

Sign Date : May, 07 2014

Company Address : 710-3, Yongtan-Dong, Chungju-City, Chungbuk, Korea, 380-250