CERTIFICATE

TÜVRheinland®

of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AN 50554612 0001

Report No.: CN22RGXJ 001

Holder:

Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Product:

Lithium-ion battery
(High Voltage Battery)

Identification:

Type Designation: B2-5.0-HV1, B2-10.0-HV1, B2-15.0-HV1, B2-20.0-HV1, B2-25.0-HV1,B2-5.1-HV1, B2-10.2-HV1, B2-15.3-HV1, B2-20.4-HV1, B2-25.6-HV1
Serial Number : Engineering samples
Remark : Refer to test report CN22RGXJ 001 for details.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

TÜVRheinland®

Certification Body

Date 10.08.2022

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Guangzhou Sanjing Electric Co., Ltd.

Date : 10.08.2022
Our ref. : XGJ 02
Your ref.: 168330287

No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Ref : AN Certificate of Conf. Low Voltage D.

Type of Equipment : High Voltage Battery
Model Designation : See Certificate
Certificate No. : AN 50554612 0001
Report No. : CN22RGXJ 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

A. Chen

Enclosure

证书的详细资料请登陆www.certipedia.com查阅，或拨打我司客服热线800 999 3668 / 400 883 1300咨询

TÜV Rheinland (China) Ltd.
莱茵检测认证服务（中国）有限公司

Room 301, 3F and Room 1203, 12F, Building C, CATIC Plaza , No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, 100176, Beijing

北京市北京经济技术开发区荣华南路15号院中航技广场C座3层301室、12层1203室
邮编：100176

Tel: 86 10 8524 2222
Fax: 86 10 8524 2200
e-mail: info@bj.chn.tuv.com
Internet: http://www.chn.tuv.com

C E R T I F I C A T E

of Conformity

EC Council Directive 2014/30/EU

Electromagnetic Compatibility

TÜVRheinland®

Registration No.: AE 50564410 0001

Report No.: CN22MKGP 001

Holder:
Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Product:
Battery
(High Voltage Battery)

Identification:

Type Designation: B2-5.0-HV1, B2-10.0-HV1, B2-15.0-HV1, B2-20.0-HV1, B2-25.0-HV1, B2-5.0-HV5, B2-10.0-HV5, B2-15.0-HV5, B2-20.0-HV5, B2-25.0-HV5
Serial No. : n.a.
Remark: Refer to above-listed test report for details.

Tested acc. to:

EN IEC 61000-6-1:2019
EN IEC 61000-6-2:2019
EN IEC 61000-6-3:2021
EN IEC 61000-6-4:2019

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

TÜV Rheinland LGA Products GmbH Zertifizierungsstelle TÜVRheinland

Certification Body

Paddy Qiu

Date 09.11.2022

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Guangzhou Sanjing Electric Co., Ltd.

Date : 09.11.2022
Our ref. : AOFEL 02
Your ref.:

No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Ref : AE Certificate of Conformity EMC

Type of Equipment : High Voltage Battery
Model Designation : See Certificate
Certificate No. : AE 50564410 0001
Report No. : CN22MKGP 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

Paddy Qiu

Enclosure

证书的详细资料请登陆www.certipedia.com查阅，或拨打我司客服热线800 999 3668 / 400 883 1300咨询

TÜV Rheinland (China) Ltd.
莱茵检测认证服务（中国）有限公司

No. 01/03B-08, Floor 7 and No. 01/04B-08, Floor 11, AVIC Building, No.10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, P.R. China

北京市朝阳区东三环中路乙10号艾维克大厦第7层第01、03B-08号，第11层第01、04B-08号
邮编：100022

Tel: (8610)8524 2222
Fax: (8610)8524 2200
e-mail: info@bj.chn.tuv.com
Internet: http://www.chn.tuv.com

C E R T I F I C A T E

of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

TÜVRheinland®

Registration No.: AE 50546305 0001

Report No.: CN22JK8Z 001

Holder:
Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Product:
Battery Pack
(Rechargeable Li-ion Battery Module)

Identification:
Type Designation: B2-4.8-HV1 B2-9.6-HV1 B2-14.4-HV1
B2-19.2-HV1 B2-24.0-HV1 B2-5.1-HV1
B2-10.2-HV1 B2-15.3-HV1 B2-20.4-HV1
B2-25.6-HV1
Serial No. : n.a.
Remark: Refer to above-listed test report for details.

Tested acc. to:
EN IEC 61000-6-1:2019
EN IEC 61000-6-3:2021

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

TÜV Rheinland LGA Products GmbH Zertifizierungsstelle TÜVRheinland

Certification Body

Date 31.05.2022

Tongle Lee

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Guangzhou Sanjing Electric Co., Ltd.

Date : 31.05.2022
Our ref. : AOFEL 02
Your ref.:

No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Ref : AE Certificate of Conformity EMC

Type of Equipment : Rechargeable Li-ion Battery Module
Model Designation : See Certificate
Certificate No. : AE 50546305 0001
Report No. : CN22JK8Z 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

Tongle Lee

Enclosure

证书的详细资料请登陆www.certipedia.com查阅，或拨打我司客服热线800 999 3668 / 400 883 1300咨询

TÜV Rheinland (China) Ltd.
莱茵检测认证服务（中国）有限公司

Room 301, 3F and Room 1203, 12F, Building C, CATIC Plaza , No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, 100176, Beijing

北京市北京经济技术开发区荣华南路15号院中航技广场C座3层301室、12层1203室
邮编：100176

Tel: 86 10 8524 2222
Fax: 86 10 8524 2200
e-mail: info@bj.chn.tuv.com
Internet: http://www.chn.tuv.com

ISO9001

本证书证实以下机构

广州三晶电气股份有限公司

广东省广州市高新技术产业开发区科学城荔枝山路 9 号

已通过中鉴认证有限责任公司的认证，
其质量管理体系符合以下国际质量管理体系标准的要求：

ISO9001:2015

特此准予注册。任何时候，与认证有关的规则和条件均须被遵守

认证范围：

太阳能发电产品（光伏逆变器/储能逆变器）及其配套件的设计开发、生产及销售；工业控制设备变频器、智能控制系统（智能家居控制器）的设计开发、生产及其销售

（本证书范围仅包括证书所列场所。若覆盖范围涉及行政许可前置审批、强制性认证的，仅涵盖许可资质、强制性认证证书范围内的产品及服务）

证书签发日期	有效日期
2022 年 03 月 11 日	2025 年 03 月 10 日

统一社会信用代码：91440101778391604S

证书编号：U0022Q50048R2M

获证组织必须定期接受监督审核并经审核合格此证书方继续有效

UKAS MANAGEMENT SYSTEMS

0158

不遵守UKAS和UKAS认可组织的认可标记使用规定，将可能导致本证书失效。

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

中鉴认证有限责任公司

该证书的所有权属于中鉴认证有限责任公司。

本证书信息可在国家认证认可监督管理委员会官方网站（www.cnca.gov.cn）上查询
证书时效及适用性可向认证机构查询：网址：www.gzcc.org.cn 或致电：020-66390902。
中国广东省广州市广州大道中 227 号华景大厦 4 楼(510600) 中鉴认证有限责任公司

ISO9001

GUANGZHOU SANJING ELECTRIC CO., LTD.

NO.9, LIZHISHAN ROAD, SCIENCE CITY, HIGH-TECH. INDUSTRIAL DEVELOPMENT ZONE,
GUANGZHOU CITY, GUANGDONG PROVINCE

Has been assessed by Zhongjian Certification Co., Ltd in respect of their Quality Management Systems and to comply with:

ISO9001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times

CERTIFICATION SCOPE:

DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF SOLAR POWER GENERATION PRODUCTS (PHOTOVOLTAIC INVERTERS/ENERGY STORAGE INVERTER) AND ACCESSORIES; DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF FREQUENCY INVERTER FOR INDUSTRIAL CONTROL MACHINERY EQUIPMENT, INTELLIGENT CONTROL SYSTEM (SMART HOME CONTROLLER)

(This certificate only covers the sites listed. If the covered scope involves pre-approval of administration permit or compulsory certification requirement,the scope only covers products and services within the permit license or compulsory certification scope)

Date of Issue: **2022-03-11**

Valid Until: **2025-03-10**

Certificate Number: **U0022Q50048R2M**

Organization Code: **914401017783916045**

This certificate remains valid only if the certified organization accepts and passes regular surveillance audits.

UKAS MANAGEMENT SYSTEMS
0158

Lack of fulfillment of condition as set out in Condition for the Use of National Accreditation Marks by UKAS and UKAS Accredited Organizations may render this certificate invalid

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

This certificate remains the property of Zhongjian Certification Co., Ltd of Quality System

Authorised Signature for
ZhongJian Certification Co., Ltd

The validity of this certificate could be confirmed via official Website Of CNCA (www.cnca.gov.cn)
Further to the certificate applicability, please enquire the certified organization: visit www.gzcc.org.cn or contact GZCC 020-66390902
1/F, Huajing Building, Guangzhou Dadaozhong, Guangzhou City, Guangdong Province, China (510600) Zhongjian Certification Co., Ltd.

ISO14001

Zhongjian Certification Co., Ltd.

CERTIFICATE OF CONFORMITY OF ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION

No:0070023E50463R2M

This is to certify that the environmental system of

GUANGZHOU SANJING ELECTRIC CO., LTD.

NO.9, LIZHISHAN ROAD, SCIENCE CITY, HIGH-TECH. INDUSTRIAL DEVELOPMENT ZONE, GUANGZHOU CITY, GUANGDONG PROVINCE

Organization Code: 914401017783916045

is in conformity with

GB/T 24001-2016/ISO14001:2015 Standard

This system is valid for the

THE RELATIVE MANAGEMENT ACTIVITIES OF DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF SOLAR POWER GENERATION PRODUCTS (PHOTOVOLTAIC INVERTERS/ENERGY STORAGE INVERTER) AND ACCESSORIES; DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF FREQUENCY INVERTER FOR INDUSTRIAL CONTROL MACHINERY EQUIPMENT, INTELLIGENT CONTROL SYSTEM (SMART HOME CONTROLLER)

（This certificate only covers the sites listed. If the covered scope involves pre-approval of administration permit or compulsory certification requirement,the scope only covers products and services within the permit license or compulsory certification scope）

Date of issue:2023-03-14

Term of validity of this certificate:from 2023-03-14 to 2026-03-13 inclusive

This certificate remains valid only if the certified organization accepts and passes regular surveillance audits.

Representative of The Company

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

CNAS 中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C007- M

The validity of this certificate could be confirmed via official Website Of CNCA (www.cnca.gov.cn)

Further to the certificate applicability, please enquire the certified organization: visit www.gzcc.org.cn or contact GZCC 020-66390902

4/F, Huajing Building, Guangzhou Dadaozhong, Guangzhou City, Guangdong Province, China (510600) Zhongjian Certification Co., Ltd.

Battery Satefy Data Sheet

1 Product and Company Identification

1.1 Product identifier

B2-xx-HV5 series:

Trade name/designation: CB3914895EA (3.2Vd.c., 50Ah) for cell

The below products contain CB3914895EA cell: BU2-5.0-HV5

Note: BU2.5.0-HV5 is the internal battery module for B2-xx-HV5 series (xx=5.0, 10.0, 15.0, 20.0, 25.0)

B2-xx-HV1 series:

Trade name/designation: GSP3914895F (3.2Vd.c., 50Ah) for cell

The below products contain GSP3914895F cell: BU2-5.0-HV1

Note: BU2.5.0-HV1 is the internal battery module for B2-xx-HV1 series (xx=5.0, 10.0, 15.0, 20.0, 25.0)

1.2 Relevant identified uses of the substance or mixture and uses advised Against

1.2.1 Relevant identified uses

Lithium-Ion battery

1.2.2 Uses advised against

Not available

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Guangzhou Sanjing Electric Co., Ltd.

Address: No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China

Telephone: 03 8353 1112 (AU)

Email: info@.saj-electric.com.au

Further Information

High Voltage Battery: Lithium-Ion (Li-ion)

Voltage:

3.2V for cell (CB3914895EA), 102.4 for battery module (BU2-5.0-HV5)

3.2V for cell (GSP3914895F), 102.4 for battery module (BU2-5.0-HV1)

Anode (negative electrode): based on intercalation graphite

Cathode (positive electrode): based on lithiated metal oxide (LFP)

1.4 Emergency telephone number

Company: SAJ DIGITAL ENERGY AUSTRALIA PTY LTD

Add: L 18 727 COLLINS ST TOWER 4 DOCKLANDS VIC 3008

AU-wide emergency number: 400-9600112

Here is a link to more contact information, which includes for other offices around the world:

www.saj-electric.com.au

General remark

- This Safety Data Sheet is provided as a service to our customers. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.
- It should not therefore be construed as guaranteeing any specific property of the product.
- The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. Guangzhou Sanjing Electric Co., Ltd. makes no warranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it.

2 Hazards Identification

2.1 Hazards Identification

Route(s) of Entry

There is no hazard when the measures for handling and storage are followed.

Signs and Symptoms of Exposure

In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

Special hazards for human health and environment

There is no hazard when the measures for handling and storage are followed.

In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

2.2 Hazards Identification

Explication of special hazards for human health and environment

Not classified as dangerous according to directive 1999/45/EEC

There is no hazard when the measures for handling and storage are followed.

In case of cell damage, possible release of dangerous substances and a flammable gas mixture.

3 Composition/Information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Not applicable

* No classification is presented since the product is legally an article which is subject to EU CLP and/or to 67/548/EEC

3.3 Hazardous components

Chemical Composition	Content / %	CAS NO.	Remark
Aluminum Foil	3.5	7429-90-5	--
Copper Foil	7.8	7440-50-8	--
Lithium Iron Phosphate	34.1	15365-14-7	--
Carbon (proprietary)	16.7	7782-42-5	--
Separator (proprietary)	3	9003-07-0	--
Electrolyte (proprietary)	20.3	/	--
Aluminum Alloy	14.6	7429-90-5	--
lead	Not Detected	7439-92-1	--
cadmium	Not Detected	7440-43-9	--
mercury	Not Detected	7439-97-6	--

Full text of each relevant R phrase can be found in “16.4 Other Information EU”.

Further Information

For information purposes:

(*) Main ingredients: Lithium hexafluorophosphate, organic carbonates

Because of the cell structure the dangerous ingredients will not be available if used properly.

During charge process a lithium graphite intercalation phase is formed.

Mercury content: Hg < 0.1mg/kg

Cadmium content: Cd < 1mg/kg

Lead content: Pb: < 10mg/kg

4 First Aid Measures

4.1 Description of first aid measures

General

Not a health hazard.

Inhalation

Not a health hazard.

Skin contact

Not a health hazard.

Eye contact

Not a health hazard.

Ingestion

Get immediate medical advice/attention.

IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGED OUTER CASING, THE FOLLOWING ACTIONS ARE RECOMMENDED;

General information

- The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing.
- Undamaged, closed cells do not represent a danger to the health.

After inhalation

Ensure of fresh air. Consult a physician.

After contact with skin

In case of contact with skin wash off immediately with plenty of water. Consult a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

- Drink plenty of water.
- Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

– Not available

4.3 Indication of any immediate medical attention and special treatment needed

– Notify medical personnel of contaminated situations and have them take appropriate protective measures.
– If exposed or concerned, get medical attention/advice.

5 Fire Fighting Measures

5.1 Suitable extinguishing media

Cold water and dry powder in large amount are applicable.
Use metal fire extinction powder or dry sand if only few cells are involved.

5.2 Special hazards arising from the chemical

May form hydrofluoric acid if electrolyte comes into contact with water.
In case of fire, the formation of the following flue gases cannot be excluded: Hydrogen fluoride (HF), Carbon monoxide and carbon dioxide.

5.3 Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.
Additional information:

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent. Cell is not flammable but internal organic material will burn if the cell is incinerated.

6 Accidental Release Measures

6.1 Personal precautions

Use personal protective clothing.

Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up mechanically and send for disposal.

7 Handling and Storage

7.1 Handling

Advice on safe handling:

- Avoid short circuiting the cell.

- Avoid mechanical damage of the cell. Do not open or disassemble.

Advice on protection against fire and explosion:

- Keep away from open flames, hot surfaces and sources of ignition.

7.2 Storage

Requirements for storage rooms and vessels

Storage at room temperature at 15°C~25°C，approx. 20-30% of the nominal capacity.

Keep in closed original container.

8 Exposure Controls/Personal Protection

Exposure limit values Exposure limits

Additional advice on limit values

During normal charging and discharging there is no release of product.

Occupational exposure controls

No specific precautions necessary.

Protective and hygiene measures

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Respiratory protection

No specific precautions necessary.

Hand protection

No specific precautions necessary.

Eye protection

No specific precautions necessary.

Skin protection

No specific precautions necessary.

9 Physical and Chemical Properties

Appearance

Form: Solid

Color: Various

Odor: Odorless

Important health, safety and environmental information

Test method

pHValue: n.a.

Flash point: n.a

Lower explosion limits: n.a.

Vapour pressure: n.a.

Density: n.a.

Water solubility: Insoluble

Ignition temperature: n.a.

10 Stability and Reactivity

10.1 Reactivity

None

10.2 Stability

Stable

10.3 Possibility of hazardous reactions

None during normal operating conditions.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Do not puncture, crush or incinerate.

10.5 Materials to avoid

No materials to be especially mentioned.

10.6 Hazardous decomposition products

In case of open cells, there is the possibility of hydrofluoric acid and carbon monoxide release.

10.7 Possibility of Hazardous Reactions

Will not occur.

10.8 Additional information

No decomposition if stored and applied as directed.

11 Toxicological Information

11.1 Acute toxicity

- Oral

– This product does not elicit toxicological properties during routine handling and use.

- - Dermal

– This product does not elicit toxicological properties during routine handling and use.

- - Inhalation

– This product does not elicit toxicological properties during routine handling and use.

11.2 Skin corrosion/irritation

No irritation.

- If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

11.3 Serious eye damage/irritation

Not available

11.4 Respiratory sensitization

Not available

11.5 Skin sensitization

No sensitization.

- If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

11.6 Germ cell mutagenicity

Not available

11.7 Carcinogenicity

Not available

11.8 Reproductive toxicity

This product does not elicit toxicological properties during routine handling and use.

11.9 Specific target organ toxicity (single exposure):

Not available

11.10 Specific target organ toxicity (repeated exposure):

Not available

11.11 Aspiration hazard

Not available

11.12 Other Information

Not available

11.13 Empirical data on effects on humans

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

12 Ecological Information

12.1 Toxicity

12.1.1 Fish

Not available

12.1.2 Invertebrate

Not available

12.1.3 Algae

Not available

12.2 Persistence and degradability

12.2.1 Persistence

Not available

12.2.2 Degradability

Not available

12.3 Bioaccumulative potential

12.3.1 Bioaccumulation

Some materials within the cell are bioaccumulative. Under normal conditions, these materials are contained

and pose no risk to persons or the surrounding environment.

12.3.2 Biodegradability

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

12.7 Further information

Ecological injuries are not known or expected under normal use. Do not flush into surface water or sanitary sewer system.

13 Disposal Considerations

13.1 Advice on disposal

For recycling consult manufacturer.

13.2 Contaminated packaging

Disposal in accordance with local regulations.

14 Transport Information

14.1 US DOT 49 CFR 172.101

Proper shipping name

Lithium-ion batteries

ID Number: UN3480

Hazard Class or Division: 9

Packing group: II

Label: 9

14.2 Land transport (ADR/RID)

UN number: 3480

ADR/RID class: 9

Classification code: M4

Warning plate

Hazard label: 9

ADR/RID packing group: II

Limited quantity: LQ 0

Tunnel restriction code: E

Description of the goods Lithium-ion batteries

14.3 Other applicable information (land)

- LQ 0: No exemption under the conditions of 3.4.2.
- Transport category: 2
- Marine transport

UN number: 3480

IMDG code: 9

Marine pollutant: No

Hazard label: 9

IMDG packing group: II

EmS: F-A, S-I

Limited quantity: None

Description of the goods Lithium-ion batteries

15 Regulatory Information

Regulatory information

Labeling

Hazardous components which must be listed on the label

As an article the product does not need to be labeled in accordance with EC directives or respective national laws.

EU regulatory information

1999/13/EC (VOC): 0 %

16 Other Information

16.1 Indication of changes

None

16.2 Training advice

Not available

16.3 Other Information

Hazardous Materials Information Label (HMIS)

- Health: 0
- Flammability: 0
- Physical Hazard: 0

NFPA Hazard Ratings

- Health: 0
- Flammability: 0
- Reactivity: 0 Unique Hazard:

16.4 Other Information

- Full text of R-phrases referred to under sections 2 and 3
- R10 Flammable.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R40 Limited evidence of a carcinogenic effect.
- R43 May cause sensitization by skin contact.
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R49 May cause cancer by inhalation.
- R50 Very toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.

16.5 Further Information

- Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations. "(n.a. = not applicable; n.d. = not determined)"
- The data for the hazardous ingredients were taken respectively from the last version of the subcontractor’s safety data sheet.