

安全数据表 Safety Data Sheet

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|---|---|--|
| Report No. 20250106052 | | |
| 版本号: 0 Version number | 发行日期 06-01-2025 Issue Date 06-Jan-2025 | |
| 产品名称: 冲击钻 Product name: IMPACT DRILL | 修订日期 N/A Revision date N/A | |

第一部分: 化学品及企业标识

SECTION1: Product and Company Identification

| | |
|---|--|
| 产品型号 Product name | 冲击钻 IMPACT DRILL |
| 产品推荐和限制用途 Identified uses | 请咨询生产商 Please consult manufacture |
| 安全数据表供应商的详细信息 Details of the supplier of the safety data sheet | |
| 企业名称 Supplier | 宝时得科技（中国）有限公司 Positec Technology (China) Co.,Ltd. |
| 企业地址 Address | 江苏省苏州市工业园区东旺路 18 号 No.18 Dongwang Road,Suzhou Industrial Park |
| 邮编 Postcode | 215123 |
| 电子邮箱 E-mail | email@positecgroup.com |
| 联系电话 Tel | +86-512-65152888 |
| 传真 Fax | +86-512-65152885 |
| 企业应急电话 Emergency telephone number | +86-512-65152888 |

第二部分:危险性概述

SECTION 2:Hazards identification

| | |
|-----------------------------|--|
| 紧急情况 Emergency situation | 警告,不可拆卸电池、不可暴露于明火中、不要混合使用不同型号和类型的电池、不要在火中暴露和燃烧、不要短路、挤压、燃烧或拆卸电池。 Warning, do not open and disassemble it, and do not exposed to fire or open flame; Don't mix put batteries with different models and different types. It will expose and burn when in fire; Do not short circuit, extrusion, burning or remove the battery. |
|-----------------------------|--|

第三部分: 成份 / 组成信息

SECTION 3: Composition/information on ingredients

| | | |
|---|-----------------|------------------------------|
| 锂电池组 WA3551.1 化学的成份。 Battery Pack WA3551.1 dangerous components. | | |
| 化学名称 Chemical Name | CAS编号 CAS-No | 材料组成 Material Composition |
| Nickel | 7440-02-0 | 2.20% |
| PA6 | 107-10-8 | 21.95% |
| glass fibre | 65997-17-3 | 6.59% |
| EVA | 24937-78-8 | 0.33% |
| Iron | 7439-89-6 | 12.62% |

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| | | |
|--|-------------|--------|
| Carbon | 7440-44-0 | 11.08% |
| Copper | 7440-50-8 | 5.52% |
| Lithium nickelate | 12031-65-1 | 9.60% |
| Aluminium | 7429-90-5 | 7.20% |
| Lithium manganese oxide | 12057-17-9 | 0.10% |
| dimethyl carbonate | 616-38-6 | 0.10% |
| cobalt lithium dioxide | 12190-79-3 | 2.12% |
| Polyethylene | 9002-88-4 | 1.80% |
| Oxygen | 7782-44-7 | 1.61% |
| 1,3-Dioxolan-2-one | 96-49-1 | 2.40% |
| lithium hexafluorophosphate(1-) | 21324-40-3 | 1.20% |
| Ethyl methyl carbonate | 623-53-0 | 4.20% |
| Polypropylene | 9003-07-04 | 0.76% |
| 1-Propene homopolymer | 9003-07-0 | 0.62% |
| Polyethylene terephthalate | 25038-59-9 | 3.60% |
| Carbon black | 1333-86-4 | 0.39% |
| Polyvinylidene fluoride | 24937-79-9 | 2.40% |
| lithium carbonate | 554-13-2 | 0.33% |
| 2-Propenoic acid polymer with butyl 2-propenoate, ethenyl acetate and 2-ethylhexyl 2-propenoate | 35239-19-1 | 0.30% |
| 4-Fluoro-1,3-dioxolan-2-one | 114435-02-8 | 0.20% |
| Carboxyl Methyl Cellulose | 9004-32-4 | 0.12% |
| Butanedinitrile | 110-61-2 | 0.10% |
| Octadecylcarbamic acid ethenyl ester homopolymer | 36671-85-9 | 0.07% |
| Styrene, butadiene copolymer | 9003-55-8 | 0.07% |
| titanium dioxide | 13463-67-7 | 0.07% |
| Talc (Mg3H2(SiO3)4) | 14807-96-6 | 0.07% |
| 2-Methyl-2-propenoic acid methyl ester polymer with 1,3-butadiene, ethenylbenzene and 2-propenenitrile | 9010-94-0 | 0.05% |
| 2-Methyl-2-propenoic acid polymer with 1,3-butadiene and ethenylbenzene | 9010-93-9 | 0.05% |
| Fatty acids, coco polymers with benzoic acid, pentaerythritol and phthalic anhydride | 68604-67-1 | 0.05% |
| poly(1,4-butylene terephthalate) | 24968-12-5 | 0.05% |
| lithium tetrafluoroborate, anhydrous | 14283-07-9 | 0.02% |
| 2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene | 9003-56-9 | 0.02% |
| 1,3-Bis(2,4,6-trioxoperhydropyrimidin-5-ylidene)isoindoline | 36888-99-0 | 0.02% |
| Magnesium | 7439-95-4 | 0.02% |

第四部分: 急救措施

SECTION 4: First aid measures

材料从电池内部泄漏

For the material leaked from battery interior

| | |
|------|-----------------------------------|
| 眼睛接触 | 如果接触, 用清水冲洗至少15分钟, 上下眼睑翻动, 直到化学残留 |
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|---|---|
| Eye contact | 物消失, 然后立即就医。 if contact, rinse with clean water for at least 15mins, turns upper and lower eyelid until the chemical residue gone, then go to see doctor immediately. |
| 皮肤接触 Skin contact | 如果接触, 用肥皂水冲洗。同时脱掉被污染的衣服和鞋子。如果化学烧伤或持续刺激, 请立即就医。 if contact, rinse with suds. Meanwhile take off the polluted clothes and shoes. If chemical burns or continual stimulates, please go to see a doctor immediately. |
| 吸入 Inhalation | 立即就医 go to see a doctor immediately |
| 吸入 Inhalation | 移至空气新鲜处,保持呼吸道畅通,如有不适,立即就医 remove him to the area that with the clean air immediately , provide him artificial respiration if can not breathe, don't use mouth-to-mouth breath method. |
| 如有呼吸困难, 给予氧气以克服呼吸困难。马上去看医生。 If has difficulty to breathe, given oxygen to overcome breathing problem.Go to see a doctor immediately. | |

第五部分: 消防措施

SECTION 5: Fire fighting measures

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| 灭火介质 Extinguishing media | |
| 合适的灭火介质 Suitable extinguishing agents | 雾状水、抗溶性泡沫、干粉、二氧化碳、砂土 CO2, dry chemical powder, water spray. |
| 不合适的灭火介质 Unsuitable extinguishing agents | 无资料 No information available. |
| 源于此物质或混合物的特别危害 Special hazards arising from the substance or mixture | 无资料 Not flammable. |
| 对消防人员的建议 Advice for firefighters | 消防员应穿戴适当的呼吸器和防护装备 Fire-fighters should wear appropriate breathing apparatus and protective equipment |

第六部分: 泄漏应急处理

SECTION 6: First aid measures

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|---|---|
| 作业人员防护措施 Personal precautions | 使用个人防护装备。避免接触皮肤、眼睛和衣物。避免吸入烟雾和气体。 Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. |
| 环境保护措施 Environmental precautions | 不排入排水、地面水、地下水 Do not discharge into the drains/surface waters/groundwater |
| 清理/占用的方法 Methods for cleaning up/taking up | 机械收起并送去处置 Take up mechanically and send for disposal. |

第七部分: 操作处置和储存

SECTION 7: Handling and storage

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| | |
|---|---|
| 处理 Handling | |
| 安全处理须知 Advice on safe handling | 避免电池短路。避免电池的机械损坏。不要打开或拆卸 Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. |
| 防火防爆须知 Advice on protection against fire and explosion | 远离明火、热表面和火源 Keep away from open flames, hot surfaces and sources of ignition. |
| 存储 Storage | |
| 仓库和容器的要求 Requirements for storage rooms and vessels | 在室温下存储。20-60%的额定容量，保存在封闭的容器中。 Storage at room temperature (approx. 20°C) at approx. 20 60% of the nominal capacity Keep in closed original container. |

第八部分: 暴露控制和个体防护

SECTION 8: Exposure controls/personal protection

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|--------------------------------|---|
| 工程控制 Engineering Control | 选择合适的通风和温度控制设备，应配备眼睛清洁和淋浴设备。使用本地设备，暴露的浓度在限定范围内。 Select the appropriate ventilation and temperature control equipment, which should be equipped with eye cleaning and shower equipment. Use local equipment to ensure its concentration under the limitation. |
| 眼睛防护 Eye protection | 在正常使用下不需要。如果要处理泄漏或电池破裂的情况，请戴有侧面护罩的护目镜。 Not necessary under normal use. Wear safety goggles or glasses with side shields if handling a leaking or ruptured battery. |
| 手部防护 Hand protection | 在正常使用下不需要。处理泄漏或破裂的电池时，应戴上橡胶手套。 Not necessary under normal use. Wear rubber gloves if handling a leaking or ruptured battery. |
| 皮肤和身体防护 Skin protection | 在正常使用下不需要。在处理泄漏或破裂的电池时，请穿防护服。 Not necessary under normal use. Wear protection suit in case of handling a leaking or ruptured battery |
| 呼吸防护 Respiratory protection | 在正常使用下不需要。处理泄露或电池破裂时需要保持空气流通，不要在狭窄的地方处理它。 Not necessary under normal use. Keep the air circulation in case of handling a leaking or ruptured battery. Do not use it in a narrow place in this case. |

第九部分: 理化特性

SECTION 9: Physical and chemical properties

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|-----------------------------|----------|
| 电池组型号 Battery pack model | WA3551.1 |
| 物理状态 Physical state | 固体 |
| 颜色 Color | 黑色 |

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|--------------------------------|------------------------------------|
| 气味 Smell | 无 |
| 电芯 Cell mode | ICR18650-2000(TENPOWER) |
| 电压 Voltage | 20V Max(18V d.c.) |
| 重量 Weight | 366g |
| 容量 Capacity | 2.0Ah |
| 电池包瓦时 Watt-hours of Battery | 36Wh |
| 水溶性 Solubility in water | 不溶于水 Does not dissolve in water |

第十部分: 稳定性和反应性 SECTION 10: Stability and reactivity

| | |
|--|---|
| 稳定性 Stability | 在正常储存和使用的情况下, 应保持稳定 It should be stable under the condition of normal storage and operation. |
| 避免接触的条件 Conditions to avoid | 过热、暴露于潮湿条件下、机械振动 Overheat; Exposure to humid conditions; Mechanical vibration |
| 禁配物 Taboo materials | 强氧化剂。 strong oxidant |
| 危险的分解产物 Hazardous decomposition products | 在燃烧的条件下可能产生有害的分解产物 Under the condition of burning may produce harmful decomposition products |
| 有害的聚合反应 Hazardous polymerization reaction | 无 N/A |

第十一部分: 毒理学信息 SECTION 11: Toxicological information

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|---|---------------------------------------|
| 急性毒性 Acute toxicity | 无资料 No data available |
| 皮肤腐蚀/刺激 Skin corrosion/irritation | 没有刺激性作用 No irritant effect |
| 严重眼损伤/刺激 Serious eye damage/irritation | 没有刺激性作用 No irritating effect |
| 呼吸道或皮肤致敏 Respiratory or skin sensitization | 无致敏作用 No sensitizing effects known |
| 特定靶器官系统毒性 Specific target organ system toxicity | 无资料 No information available |
| 毒物动力学、代谢和分布 Toxicokinetics , metabolism and distribution | 无资料 No information available |
| 吸入危害 Aspiration hazard | 无资料 No information available |
| CMR效应(致癌性、诱变性和生殖毒性) | 无资料 |

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| | |
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| | |
|---|--------------------------|
| CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) | No information available |
|---|--------------------------|

第十二部分: 生态学信息

SECTION 12: Ecological information

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| 在正常使用条件下, 无生态损害。不要冲入水或下水道系统 There are no ecological injuries under normal usage. Do not flush into water or sanitary sewer system |
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第十三部分: 废弃处置

SECTION 13: Disposal considerations

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| 建议处理: 关于回收请咨询制造商, 按当地规定处置。 Advice on disposal: For recycling consult manufacturer. Disposal in accordance with local regulations |
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第十四部分: 运输信息

SECTION 14: Transport information

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| 附录中描述的可充电锂离子电池组符合国际航空运输协会(IATA)危险品法规包装指令966第二部分 (66版, 2025), 可以作为非限制(非危险/非危险)货物运输。 关于运输, 引用和考虑了下列规定: -国际民用航空组织(ICAO)技术指导书, 包装指导书 966, 第二部分(2025-2026版) -国际航空运输协会(IATA)危险品规则, 包装指示966, 第二部分(第66版, 2025) -《国际海事危险货物规则》(第41 2022版) -美国有害材料法规49 CFR(联邦法规法典)第173-185条锂电池和电池, -联合国关于危险货物运输的建议, 锂电池试验和标准手册38.3, Rev.7 | The rechargeable lithium ion battery packs described in the Appendix comply with IATA Dangerous Goods Regulation Packaging Directive Section 966 II (66 edition, 2025) and can be transported as non-restricted (non-hazardous/non-hazardous) goods. With regard to transport, the following regulations are cited and considered: - The International Civil Aviation Organization (ICAO) Technical Instructions, Packing Instruction 966, Section II (2025-2026Edition) - The International Air Transport Association (IATA) Dangerous Goods Regulations, Packing Instruction 966, Section II (66th Edition, 2025) - The International Maritime Dangerous Goods (IMDG) Code (41th 2022 Edition) - US Hazardous Materials Regulations 49 CFR (Code of Federal Regulations) Sections 173-185 Lithium batteries and cells, - The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries , Rev.7 |
|--|--|

DOT

| | |
|------------------------------------|---|
| 正确运输名称 Proper Shipping Name | 和设备包装在一起的锂离子电池 Lithium ion batteries packed with equipment |
| 危险等级 Hazard Class | 9 |
| 应急响应指南 Emergency Response Guide | 147 |
| UN 号 UN number | 3481 |

TDG 不受管制

安全数据表 *Safety Data Sheet*

| Report No. 20250106052 | |
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Not regulated

MEX

不受管制
Not regulated

ICAO (air)

根据包装说明966第 II 部分要求办理。
The goods are packaged according to the Packaging Instruction 966 section II.

正确运输名称
Proper Shipping Name
危险等级
Hazard Class
UN 号
UN number
锂电池净重
Net weight of lithium battery

和设备包装在一起的锂离子电池
Lithium ion batteries packed with equipment
9
3481
不超过5Kg
Not exceed 5Kg

IATA

根据包装说明966第 II 部分要求办理。
The goods are packaged according to the Packaging Instruction 966 section II.

正确运输名称
Proper Shipping Name
危险等级
Hazard Class
UN 号
UN number

和设备包装在一起的锂离子电池
Lithium ion batteries packed with equipment
9
3481

IMDG

根据特殊规定 188, 该物品不受 IMO IMDG Code 其他条款限制
The article is not subject to other provisions of IMO IMDG Code according to special provisions 188.

正确运输名称
Proper Shipping Name
危险等级
Hazard Class
应急表号
EmS-No.
UN number

和设备包装在一起的锂离子电池
Lithium ion batteries packed with equipment
9
F-A, S-I
3481

RID

不受管制
Not regulated

ADR

根据特殊规定 188, 本条不限于 ADR 其他条款限制
The article is not subject to other provisions of ADR according to special provisions 188.

正确运输名称
Proper Shipping Name
危险等级

和设备包装在一起的锂离子电池
Lithium ion batteries packed with equipment
9

安全数据表 Safety Data Sheet

| | |
|---|---|
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| | |
|--------------|-----------------------|
| Hazard Class | |
| UN 号 | 3481 |
| UN number | |
| 应急表号 | F-A, S-I |
| EmS-No. | |
| ADN | 不受管制 Not regulated |

| | |
|---|---|
| 我们的产品经过适当的分类、描述、包装、标记和标签，并根据所有适用的国际和国家政府法规处于适当的运输条件，但不限于上述规定。我们进一步证明，所附产品已按照联合国《危险货物运输示范条例》建议（T1-T8）和《试验和标准手册》进行了试验，并符合可被视为“非危险货物”的要求和条件。 | Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 – T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Tests and Criteria that can be treated as “Non-Dangerous Goods”. |
|---|---|

| 试验和标准手册 un38.3锂电池 Manual of Test and Criteria (38.3 Lithium battery) | | 测试结果 Test Results | 备注 Remarks |
|---|-----------------------------|----------------------|---------------|
| 序号No. | 测试项目Test item | | |
| T1 | 高空模拟Altitude Simulation | P | -- |
| T2 | 热冲击 Thermal Test | P | -- |
| T3 | 振动 Vibration | P | -- |
| T4 | 冲击 Shock | P | -- |
| T5 | 外部短路 External Short Circuit | P | -- |
| T6 | 重物撞击Impact/挤压Crush | P | -- |
| T7 | 过充Overcharge | P | -- |
| T8 | 强制放电Forced Discharge | P | -- |

第十五部分: 法规信息
SECTION 15: Regulatory information

| | |
|---|----------------------------------|
| 特定于物质的安全、健康和环境法规 Safety, health and environmental regulations/legislation specific for the substance | |
| 美国或欧盟法规 USA or EU Regulation | |
| 授权 Authorizations | 无资料 No information available. |
| 授权使用限制 Restrictions on use | 无资料 No information available. |

第十六部分: 其他信息

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SECTION 16: Other information

| | |
|---|--|
| 这一信息是基于我们现有的知识，但不构成对具体产品特性的保证，不构成具有法律效力的合同关系。 | This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. |
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免责声明

Disclaimer

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| | | |
|-------------------------|----------------------------|---------------------------|
| Author | Reviewer | Approval |
| Jian Pan 06-Jan-2025 | Yanping Yan 06-Jan-2025 | Allen Ding 06-Jan-2025 |

-----安全数据表结束-----
----End of Safety Data Sheet----