



CTC Laboratories, Inc.

Report No 报告号: CTC2025696701

Material Safety Data Sheet

化学品安全技术说明书

Name of sample 样品名称	Rechargeable Li-ion Battery 可充电锂离子电池	
Model 型号	3120	
Applicant 申请商	SHENZHEN GOTRON ELECTRONIC CO., LTD 深圳市冠群电子有限公司	
Address 地址	7 B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen, China 深圳市龙华区民治街道大岭社区安宏基天曜广场 1 栋 A 座 7B01	
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01	CTC2025696701	2025-12-05	Original 首次发布

Section 1- Chemical Product & Company Identification 第一部分 化学品及企业标识	
Name of sample/样品名称:	Rechargeable Li-ion Battery 可充电锂离子电池
Model/型号:	3120
Ratings/额定值:	3.85V, 33280mAh, 123.123Wh
Weight(Max)/重量（最大）:	439.3g
Manufacture/制造商:	Shenzhen Huatiantong Technology Co., Ltd. 深圳市华天通科技有限公司
Address/ 地址:	Floor 1st, 2nd, 3rd, Building 3, Kaijieda Industrial District, No.97 Huaxing Road, Shuiwei Community, Dalang Street, Longhua District, Shenzhen City, P.R. China 深圳市龙华区大浪街道水围社区华兴路 97 号凯杰达工业区 3 栋 1 层、2 层、3 层
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E-mail /邮箱:	jun407@163.com

Section2- Hazards Identification 第二部分 危险性概述	
Hazard Description 危险性描述	Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredient s products could be harmful 正常使用没有危险 ， 不能拆解、打开或分解电池，里面的材料或成分是有危害的
Primary Route(s) of Exposure 接触途径	Inhalation, Ingestion, Skin contact and Eye contact 吸入、食入、皮肤接触、眼睛接触。



Potential Health Effects 潜在健康影响	Inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation. 吸入: 破裂的电地散发出来的气 雾会引起呼吸道刺激 Ingestion: The battery ingredients contained within Or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract 食入 = 电地的组成成分或原料可以导致嘴, 食道和胃肠道的严重化学烧伤 Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin 皮肤 = 皮肤接触到电池的 内部 化学材料可能会导致严重的刺激或烧伤皮肤。 Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye 眼睛 = 眼睛接触到电池的 内 部化学材料可能会导致严重的刺激或烧 伤眼睛。
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Section 3- Composition/Information on Ingredients 第三部分 成分 / 组成信息		
Chemical Name	Percent of Content	CAS No.
Cobaltic lithium oxide	46.96%	12190-79-3
Graphite powder	21.63%	7782-42-5
Aluminum	3.92%	7429-90-5
Rubber	0.29%	69028-37-1
Carbon black	0.23%	1333-86-4
Styrene-butadiene rubber (SBR)	0.41%	61789-96-6
Carboxymethylcellulose	0.39%	9000-11-7
Copper	8.44%	7440-50-8
Nickel	0.17%	7440-02-0
Polypropylene (PP)	0.61%	9003-07-0
Polyethylene (PE)	3.09%	9002-88-4
Lithium hexafluorophosphate	1.94%	21324-40-3
Ethylene carbonate (EC)	4.66%	96-49-1



Diethyl carbonate (DEC)	6.21%	105-58-8
Propylene carbonate (PC)	0.54%	108-32-7
Polycaprolactam (NYLON 6)	0.51%	25038-54-4
Note: CAS No. = Chemical Abstract Service Registry Number.		

Section 4- First Aid Measures 第四部分 急救措施	
Skin Contact 皮肤接触	Not anticipated. If the battery is leaking and the contained material contacts the skin, flush with copious amounts of clear water for at least 15 minutes. 没有预料到的情况。如果电池泄漏, 电池内的材料接触到皮肤, 用大量清水冲洗至少 15 分钟。
Eye Contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician 用流动水冲洗才 5 分钟, 如刺激持续发生, 请求助于医生。
Inhalation 吸入	Remove source of contamination or move victim to fresh air advice 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water Induce vomiting under the guidance of professional personage. Please seek medical treatment in time 立即用清水漱口, 在专业人士的指导节催吐, 速就医

Section 5- Fire Fighting Measures 第五部分 消防措施	
Characteristics of Hazard 危险特性	Toxic fumes , gases or vapors may evolve on burning 火灾时可释放有害戒烟、气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide carbon dioxide lithium oxide fumes and so on 一氧化碳, 二氧化碳 , 埋氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法和灭火介质	Please use dry powder fire extinguisher and other Proper fire extinguishing media 请使用干粉灭火器等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits 消防人员须佩戴防毒面具、穿全身消防服。



Section 6- Accidental Release Measures 第六部分 泄漏应急处理	
Personal Precautions, protective equipment, and emergency procedures 个人防护措施、防护装备和应急程序	Restrict access to area until completion of clean-up Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8 限制区域, 直到完成清理工作。请勿触摸泄漏的材料。 穿戴适当的个人防护设备, 如第 8 部分所示。
Environmental Precautions 环境保护措施	Prevent material from contaminating soil and from entering sewers or waterways 防止物质污染土壤和进入下水道或水道。
Methods and materials for Containment 方法和材料控制	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately 出于安全, 阻止泄漏, 可以用干砂或 沙土来遏制液体泄露, 立即清理泄漏。
Methods and materials for cleaning up 清理的方法和材料	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water collect all contaminated wash water for proper disposal. 用惰性吸收剂(干砂或沙土)吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。用洗涤剂和水清洁污染区域收集所有受污染的洗涤水进行适当处置。

Section 7- Handling and Storage 第七部分 操作处置与储存	
Handling 操作	Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery 不要以让接头短路的方式对电池进行操作。不要打开, 分解, 挤压或燃烧电池。
Storage 储存	If the battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the battery periodically. 如果电池长期存放超过 3 个月, 建议定期对电池充电。 Long term storage: 10℃~+35℃, 45%~75% R.H. 长期存储: 10℃~+35℃, 相对湿度 45%~75% R.H. Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. 不要将电池随意丢在盒子或抽屉里, 以免电池之间或电池与其他金属物质发生短路。 Keep out of reach of children 储存在小孩接触不到的地方。 Do not expose the battery to heat or fire. Avoid storage in direct sunlight 不要将电池暴露在火源和热源附近, 避免在阳光直射下存储。 Do not store together with oxidizing and acidic materials



不要与氧化和酸性物质存储在一起

Section 8 – Exposure Controls/Personal Protection**第八部分 接触控制和个体防护**

Engineering Controls 工程控制	No engineering controls are required for handling batteries that have not been damaged. Personal protective equipment for damaged batteries should include chemical resistant gloves and safety glasses. 操作未破损的电池, 没有工程控制要求。对于破损的电池, 个人防护用品应包括化学品 防护手套和安全眼镜。
Personal Protective Equipment 个人防护设备	Respiratory Protection: In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use. 呼吸保护: 当电池排气阀打开时, 应尽量使通风设备开至最大, 避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下, 呼吸保护是不必要的。正常使用条件下不必考虑。 Protective Gloves: Not necessary under conditions of normal use 防护手套: 正常使用条件下不必考虑。 Other Protective Clothing or Equipment: Not necessary under conditions of normal use 其他防护服装或设备: 正常使用条件下不必考虑。 Personal Protection is recommended for venting battery: Respiratory Protection , Protective Gloves, Protective Clothing and safety glass with side shields . 当电池排气阀打开时, 应做好个人防护: 呼吸 防护, 防护手套, 防护服装和有护边的 安全玻璃罩都是要准备的。

Section 9 - Physical and Chemical Properties**第九部分 理化特性**

Physical State 物理状态	Form: Solid 形态: 固体
	Color: Silver 颜色: 银色
	Odour: Odorless 气味: 无气味
Change in condition 变化条件	
pH, with indication of the concentration pH, 有浓度指示	Not applicable 不适用
Melting point/freezing point 熔点 / 凝固点	Not applicable 不适用
Boiling Point, initial boiling point 沸点, 初沸点	Not applicable 不适用

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Flash Point 闪点	Not applicable 不适用
Upper/lower flammability or explosive limits 上/下燃烧或爆炸限值	Not applicable 不适用
Vapor Pressure 蒸汽压	Not applicable 不适用
Vapor Density: (Air = 1) 蒸汽密度: (空气 = 1)	Not applicable 不适用
Density/relative density 密度/相对密度	Not applicable 不适用
Solubility in Water 水溶性	Insoluble 不能溶解
n-octanol/water partition coefficient 正辛醇/水分配系数	Not applicable 不适用
Auto-ignition temperature 自燃温度	Not applicable 不适用
Decomposition temperature 分解温度	Not applicable 不适用
Odour threshold 嗅阈	Not applicable 不适用
Evaporation rate 蒸发速率	Not applicable 不适用
Flammability (soil, gas) 易燃性 (土壤, 气体)	Not applicable 不适用
Viscosity 粘度	Not applicable 不适用

Section 10 - Stability and Reactivity**第十部分 稳定性和反应性**

Stability 稳定性	Stable under normal temperatures and pressures 常温常压下稳定。
Conditions to Avoid 应避免的条件	Heat above 70°C incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions 加热 70°C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路, 长时间暴露在潮湿的条件下。
Hazardous Decomposition Products 危害分解物	Toxic Fumes, and may form peroxides 有毒烟雾, 并可能形成过氧化物。
Possibility of Hazardous Reaction	If leaked, for bidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons

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危险反应的可能性	如果发生泄露, 避免 与强氧化剂, 无机酸, 强碱, 卤代烃接触
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Section 11 - Toxicological Information 第十一部分 毒理学信息	
Irritation 刺激	Not applicable 不适用
Sensitization 致敏	Not applicable 不适用
Reproductive Toxicity 再生毒性	Not applicable 不适用
Toxicologically Synergistic Materials 协同材料毒理学	Not applicable 不适用

Section 12-Ecological information 第十二部分 生态学信息	
General note 通用信息	Do not allow undiluted product or large quantities of it to reach ground water, water course Or sewage system. 不允许未稀释或大量的产品到达地下水、水道或污水系统。
Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity 化学产品在环境 / 可能的环境预期的行为的一种生态毒性	Not applicable 不适用
Mobility in soil 土壤中移动性	Not applicable 不适用
Persistence and Degradability 持久性和降解性	Not applicable 不适用

Section 13 - Disposal Considerations 第十三部分 废弃处置	
Waste Treatment 废弃处置方法	Recycle or dispose of in accordance with government , state & local regulations 建议遵照国家和地方法规处置或再利用
Attention for Waste Treatment 废弃注意事项	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling 废电池不能被当做普通垃圾。 不能扔进火中或置于高温下。不能解体, 刺



	穿，破碎或类似的处理。最好的办法是回收利用。
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Section 14- Transport Information 第十四部分运输信息
This report applies to by sea, by air and by land; The lithium ion or lithium polymer cells or batteries must be of a design type proved to meet the testing requirements of the Manual of test and criteria, Part III, subsection 38.3; 本报告适用于海运、空运和陆运;锂离子或锂聚合物电芯或电池经过测试符合联合国《关于危险货物运输的建议书实验和标准手册》第三部分，第 38.3 章节的要求。 The cells or batteries was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit; 该电芯或电池做了防短路保护。包括防止与同一封装内的导电材料接触可能导致的短路。 The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking 包装应足以避免在运输，处理和堆放期间的机械损坏。 The package must be handled with care and that a flammability hazard exists if the package is damaged 包装必须小心处理，如果包装损坏，存在易燃危险。 The cells and batteries according to PACKING INSTRUCTION Section IB of PI 965 or Section II of PI 966~967 of the IATA Dangerous Goods regulations 67th Edition may be transported. 该电芯或电池可以根据 IATA 危险品规则第 67 版 PI 965 包装说明第 IB 部分或 PI 966~967 包装说明第 II 部分运输。 With regard to transport, the following regulations are cited and considered 关于运输，引用和考虑了以下法规： -The International Civil Aviation Organization (ICAO) Technical Instructions - 国际民用航空组织（ICAO）技术细则。 -The International Air transport Association (IATA) Dangerous Goods Regulations - 国际航空运输协会（IATA）危险物品规则。 UN number of lithium battery: UN3480 or UN3481; 锂电池 UN 编号:UN3480 或 UN3481; UN Proper shipping name/Description (technical name): Lithium ion batteries UN 合适的运输名称 / 描述（技术名称）：锂离子电池 UN Classification (Transport hazard class): N/A UN 分类（运输危险类别）：不适用 Marine pollutant(Y/N): N 海洋污染物 (Y/N): N International Maritime Dangerous Goods Code under Special Provision 188IMDG CODE (Amdt 42-24) 《国际海运危险货物规则》特殊规定 188 IMDG CODE (Amdt 42-24)





Section 15 - Regulatory Information

第十五部分法规信息

《Dangerous Goods Regulations》
《危险物品规例》
《Recommendations on the Transport of Dangerous Goods model Regulations》
《危险货物运输的建议模型规定》
《International Maritime Dangerous Goods》
《国际海上危险货物运输》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《危险货物安全运输技术指南》
《Classification and code of dangerous goods》
《危险货物分类与代码》
《Occupational Safety and Health Act》(OSHA)
《职业安全与健康法案》(OSHA)
《Toxic Substance Control Act》(TSCA)
《有毒物质控制法》(TSCA)
《Consumer Product Safety Act》(CPSA)
《消费者产品安全法案》(CPSA)
《Federal Environmental Pollution Control Act》(FEPCA)
《联邦环境污染控制法》(FEPCA)
《The Oil Pollution Act》(OPA)
《石油污染法》(OPA)
《Superfund Amendments and Reauthorization Act TitleIII(302/311/312/313)》(SARA)
《超级基金修正案和再授权法案 TitleIII(302/311/312/313)》(SARA)
《Resource Conservation and Recovery Act》(RCRA)
《资源保护和恢复法案》(RCRA)
《Safety Drinking Water Act》(CWA)
《安全饮用水法》(CWA)
《California Proposition 65》
《加州 65 号提案》
《Code of Federal Regulations》(CFR)
《联邦条例》(CFR)

In accordance with all Federal, State and local laws
符合所有联邦、州和地方法律。

**Section 16 -Additional Information****第十六部分 其他信息**

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable Precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this Product should be evaluated to determine if additional precautions are required

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