

Material Safety Data Sheet 化学品安全技术说明书

委托方/ Client	东莞威信运动用品有限公司 Dongguan Prestige Sporting Goods Co.,Ltd
委托方地址 Add. of Client	东莞厚街镇桥头第三工业区 3rd Industrial.District, Qiaotou Area, Houjie Town, Dongguan City, Guangdong Province, China
样品名称 Description	锂离子电池 Lithium Battery
型号规格 Model /Type	FLEX series 153x202.5x40
制造厂 Manufacturer	深圳市卓能新能源股份有限公司 Shenzhen zhuoneng new energy co.,Ltd.
制造厂地址 Add. of Manufacturer	深圳龙岗坪地富坪中路 6 号 No.6 Fuping middle road, pingdi Longgang China
标称电压 Nominal Voltage	25.2V
额定容量 Typical Capacity	10Ah
额定能量 Wh rating	252Wh
Issue date 签发日期	2022-01-04
Laboratory 实验室	Dongguan ZRLK Testing Technology Co., Ltd. 东莞市中认联科检测技术有限公司
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Section 1-化学品及企业标识 Chemical Product and Company Identification

1. 化学产品标识 Chemical Product Identification

产品名称/Product name: Lithium Battery

型号/Model: FLEX series 153x202.5x40

2. 公司标识 Company Identification

制造商 / 供应商名称 Manufacturer / Supplier Name: 深圳市卓能新能源股份有限公司 Shenzhen zhuoneng new energy co., Ltd.

地址 Address: 深圳龙岗坪地富坪中路 6 号 No.6 Fuping middle road, pingdi Longgang China

供应商电话 Telephone number of the supplier: +86-13423185304

紧急电话(24 小时) Emergency Telephone No.(24h): +86-13423185304

邮箱地址 E-mail address: qwa2@wise fame.com

这份 MSDS 报告由东莞市中认联科检测技术有限公司签发;

This MSDS was prepared by Dongguan ZRLK Testing Technology Co., Ltd.

参考文件:ISO 11014:2009 化工产品安全数据表;

Referenced documents: ISO 11014:2009 Safety data sheet for chemical products;

Section 2 –危险性概述 Hazards Identification

危害及分类准备 Preparation hazards and classification	当电池处于挤压变形、高温环境、过载、短路状态或拆卸电池时，可能会发生火灾爆炸和化学燃烧危险。 When the battery is In extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur.
外观、颜色和气味 Apperance, Color, and Odor	固体，没有气味，没有颜色 Solid object with no odor, no color.
主要暴露途径 Primary Route(s) of Exposure	这些化学品装在密封的不锈钢外壳内，暴露的风险只有在电池受到机械、热或滥用等危及到外壳的程度时才会发生，如果发生这种情况，接触电解液所包含的可能发生吸入、摄入、眼睛接触和皮肤接触。 These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact
潜在健康影响 Potential Health Effects:	急性(短期) ACUTE (short term): 接触控制请参见第 8 节，如果电池破裂，电池内的电解质溶液将具有腐蚀性，并可能导致烧伤。 see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns. 吸入 Inhalation: 电池除非损坏，否则不会挥发气体，损坏的电池将挥发少量气体，可能刺激呼吸道或在严重情况下引起过敏反应。 A battery volatilizes no gas unless it was damaged. Damaged battery will volatilize little



	<p>gas that may stimulate the respiratory tract or cause an anaphylaxis in serious condition. 食入 Ingestion: 吞咽电池会对呼吸道造成损伤, 对胃造成化学灼伤; 在严重的情况下, 它会造成永久性的损害。 Swallowing battery will be Damaged to the respiratory tract and Cause chemical burns to the stomach; in serious conditions it will cause Permanent damage. 皮肤 Skin: 在正常情况下, 电池与皮肤的接触不会造成任何伤害。接触损坏的电池可能会引起皮肤过敏或化学烧伤。 In normal condition, Contact between the battery and skin will not cause any harms. Contact with a damaged battery may cause skin allergies or chemical burns. 眼睛 Eye: 在正常情况下, 电池与眼睛的接触不会造成任何伤害。然而从损坏的电池挥发出来的气体可能对眼睛有害。 in normal condition, Contact between the battery and eyes will not cause any harms. However, the gas Volatilize from a damaged battery may be harmful to eyes. 慢性(长期) CHRONIC (long term): 见第 11 节获取更多毒理学数据。 see Section 11 for additional toxicological data</p>
身体状况因暴露而恶化 Medical Conditions Aggravated by Exposure	不适用 Not applicable
报告致癌物质评价 Reported as carcinogen	不适用 Not applicable

Section 3 –成分/组成信息 Composition/Information on Ingredients

危险成分(化学名称) Hazardous Ingredients (Chemical Name)	浓度或浓度范围(%) Concentration or concentration ranges (%)	化学文摘号 CAS Number
Lithiumnickelcobaltoxide (CoLiNiO)	25-35	113066-89-0
石墨 Graphite (C24X12)	15-20	7782-42-5
聚偏二氟乙烯树脂 Polyvinylidene fluoride (C2H2F2)n	15	24937-79-9
炭黑 Carbon Black (C)	0.5-3	1333-86-4
铝 Aluminium (Al)	21-23	7429-90-5
铜 Copper(Cu)	10-11	7440-50-8
电解液 Electrolyte	10-15	623-53-0/21324-40-3



Section 4 –急救措施 First-aid Measures

吸入 Inhalation	如果吸入，清除污染物或将患者转移到空气新鲜的地方，并立即就医 If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
皮肤接触 Skin contact	如果皮肤与电池的內部物质接触，应尽快去除衣服、鞋子和皮革制品上的污染物质。立即用温和的流动水冲洗至少 30 分钟。如果刺激或疼痛持续，立即就医。衣物、鞋及皮具必须彻底去出，方可再用或弃置。 If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
眼睛接触 Eye contact	如果眼睛接触到打开的电池，立即用流动的温水轻轻水将被污染的眼睛冲洗至少 30 分钟，同时保持眼睛睁开。如果有中性盐水溶液，也可以立即使用。如有必要，在运送到急救治疗期间继续冲洗。注意不要将受污染的水冲洗到未受影响的眼睛或脸上，迅速将受害者送往急救中心。 If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.
摄入 Ingestion	如果进食了未开封电池的内容物，如果受害者正在迅速失去意识，或昏迷或抽搐，千万不要给他们任何食物。让患者用水彻底冲洗口腔，不要催吐，让患者喝 60 - 240 毫升(2-8 盎司)的水，如果呕吐是自然发生的，请让患者身体前倾，以减少误吸的风险，让患者再次用水漱口，迅速将受害者送往急救中心。 If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

Section 5 –消防措施 Fire-fighting Measures

易燃特性 Flammable Properties	在这种电池已经破裂的情况下，电池中包含的电解液将是易燃的。像任何密封容器一样，电池暴露在过热环境下可能会破裂；这可能导致易燃或腐蚀性材料的释放 In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when
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	exposed to excessive heat; this could result in the release of flammable or corrosive materials.
适用的灭火剂 Suitable extinguishing Media	使用适合于正在燃烧的材料灭火介质。Use extinguishing media suitable for the materials that are burning.
不适合的灭火 媒介 Unsuitable extinguishing Media	不适用 Not available
防爆 Explosion Data	机械冲击灵敏度:Sensitivity to Mechanical Impact: 在极端情况下, 这可能导致破裂。 This may result in rupture in extreme cases 静电放电灵敏度 Sensitivity to Static Discharge: 不适用 Not Applicable
由化学物质引 起的特定危害 Specific Hazards arising from the chemical	涉及锂电池的火灾可以用水控制。然而, 当使用水时, 可能会产生氢气。在密闭空间, 氢气能形成爆炸性混合物, 在这种情况下, 建议使用窒息剂灭火。 Fires involving Lithium Battery can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire
防人员的防护 设备和注意事 项 Protective Equipment and precautions for firefighters	如果发生火灾, 撤离该区域并在安全距离内灭火。戴上需要压力的自给式呼吸器和全套防护装备, 在有保护的地方或安全的距离灭火。使用NIOSH/MSHA认可的全面自给式呼吸器(SCBA)和全套防护装备。 As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.
NFPA	健康:0可燃性:0不稳定性:0 Health: 0 Flammability: 0 Instability: 0

Section 6 – 泄漏应急处理 Accidental Release Measures

个人预防措施、防护设备和应急程序 Personal Precautions, protective equipment, and emergency procedures	在清理工作完成之前, 禁止任何人进入该区域。 不要触摸溢出的材料, 按照第 8 节的要求, 穿戴 足够的个人防护装备。 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.
环境预防措施 Environmental Precautions	防止材料污染土壤和进入下水道或水道。 Prevent material from contaminating soil and from



	entering sewers or waterways.
容器的方法和材料 Methods and materials for Containment	如果安全的话，堵漏，并且用干沙子或泥土将溢出的液体密封起来，清理泄漏。 Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
材料的清理和方法 Methods and materials for cleaning up	用惰性吸收剂(干燥的沙子或泥土)吸收溢出的材料，将被污染的吸收剂舀到可接受的废物容器中，收集所有被污染的吸收剂，并按照第 13 章的说明处理，用清洁剂和水擦洗该区域；收集所有被污染的洗涤水，以适当的方式处理。 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.

Section 7 –操作处置与储存 Handling and Storage

操作 Handling	请勿拆卸、打开或撕碎二次锂电池；不要用金属制品处理锂电池。 请勿打开、拆卸、压碎或烧毁电池。确保工作场所通风良好。 防止灰尘的形成。关于防止爆炸和火灾的信息:远离点火源-不要吸烟。 Do not dismantle, open or shred secondary Lithium Battery; Don't handling Lithium Battery with metalwork. Do not open, disassemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away- Do not smoke.
储存 Storage	如果锂电池需要长期储存 3 个月以上，建议定期对锂电池进行充电。 3 个月:-10℃~+40℃，45 ~ 85%RH 建议在 0℃~+35℃下长期保存。 假设存储后交付状态(满电时容量为 50%)的容量回收率为 80%以上。 请勿随意将锂电池储存在盒子或抽屉中，以免锂



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	<p>电池相互短路或被其他金属物体短路。 请置于儿童接触不到的地方 请勿将锂电池置于高温或火中。 避免储存在阳光直射的地方。 请勿与氧化性和酸性物质存放。 If the Lithium Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Lithium Battery periodically. 3 months: -10°C~+40°C, 45 to 85%RH And recommended at 0°C~+35°C for long period storage. The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more. Do not storage Lithium Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children. Do not expose Lithium Battery to heat or fire. Avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials.</p>
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Section 8 – Exposure Controls and Personal Protection

工程控制 Engineering Controls	<p>使用当地的排气通风或其他工程控制，以控制灰尘、雾、烟雾和蒸汽的来源。 Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. 远离热源和明火。储存在阴凉、干燥的地方。 Keep away from heat and open flame. Store in a cool, dry place.</p>
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个人防护用品 Personal Protective Equipment	<p>呼吸防护 Respiratory Protection: 正常情况下不需要。 Not necessary under normal conditions.</p> <p>皮肤及身体防护 Skin and body Protection: 正常情况下不需要, 处理打开或漏水的电池时, 应佩戴氯丁橡胶或丁腈橡胶手套。 Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.</p> <p>手部防护 Hand protection: 处理打开或漏液的电池时, 应戴氯丁橡胶或天然橡胶材料的手套。 Wear neoprene or natural rubber material gloves if handling an open or leaking battery.</p> <p>眼部防护 Eye Protection: 正常情况下不需要, 在处理打开或漏电的电池时应佩戴安全眼镜。 Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.</p>
其他防护设备 Other Protective Equipment	在直接的工作区域有一个安全的淋浴和洗眼喷泉。 Have a safety shower and eye wash fountain readily available in the immediate work area.
卫生措施 Hygiene Measures	请勿在工作区域内进食、饮水或吸烟、保持场地清洁。 Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9 - 理化特性 Physical and Chemical Properties

物理状态 Physical State	型式Form: 棱柱形Prismatic 气味/ Odour: Monotony
条件的变化 Change in condition:	
pH值, 指示浓度 pH, with indication of the concentration	不适用 Not applicable
熔点/凝固点 Melting point/freezing point	不适用 Not available.
沸点、初沸点及沸点范围: Boiling Point, initial boiling point and Boiling range:	不适用 Not available.
闪点 Flash Point	不适用 Not available.
可燃性或爆炸性上限/下限 Upper/lower flammability or explosive limits	不适用 Not available.



蒸汽压 Vapor Pressure:	不适用 Not applicable
蒸汽密度 Vapor Density: (Air = 1)	不适用 Not applicable
密度和相对密度 Density/relative density	不适用 Not available.
水溶性 Solubility in Water:	Insoluble不可溶解的
正辛醇/水分配系数 n-octanol/water partition coefficient	不适用 Not available.
自燃温度 Auto-ignition temperature	不适用 Not available.
分解温度 Decomposition temperature	不适用 Not available.
嗅觉阈值 Odour threshold	不适用 Not available.
蒸发率 Evaporation rate	不适用 Not available.
可燃性(土壤、天然气) Flammability (soil, gas)	不适用 Not available.
黏性 Viscosity	不适用 Not applicable

Section 10 - 稳定性和反应性 Stability and Reactivity

稳定性 Stability	该产品在正常条件下是稳定的 The product is stable under normal conditions.
应避免的条件 (如静电放电、冲击或振动) Conditions to Avoid (e.g. static discharge, shock or vibration)	请勿对锂电池进行机械冲击。 Do not subject Lithium Battery to mechanical shock. 运输过程中遇到的振动不会引起泄漏、火灾或爆炸。 Vibration encountered during transportation does not cause leakage, fire or explosion. 不要拆卸、压碎、短路或安装错误的极性, 避免机械或电气滥用。 Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.
不兼容的材料 Incompatible Materials	不适用 Not Available
危险产物的分解 Hazardous Decomposition Products	这种材料如果被燃烧或暴露于火中, 可能会释放出有毒气体。 This material may release toxic fumes if burned or exposed to fire
危险反应的可能性 Possibility of Hazardous Reaction	不适用 Not Available

Section 11 - 毒理学信息 Toxicological Information

正常情况下, 与电池的接触是无毒的。In normal condition, contact with the battery is non-toxic.

Section 12 - 生态学信息 Ecological Information

一般注解 General note:	水危险等级 1(自评):对水有轻微危险。 Water hazard class 1(Self-assessment): slightly hazardous for water. 不允许未经稀释的产品或大量的产品进入地下水、下水道或污水系统。 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
化学产品在环境中的预期行为/可能的环境冲击/生态毒性 Anticipated behavior of a chemical product in environment/possible environmental impace/ecotoxicity.	不适用 Not Available
土壤中的迁移性 Mobility in soil	不适用 Not Available
持久性和降解性 Persistence and Degradability	不适用 Not Available
生物体内积累的可能 Bioaccumulation potential	不适用 Not Available
其他不良反应 Other Adverse Effects	不适用 Not Available

Section 13 –废弃处置 Disposal Considerations

产品处理建议:遵守当地、州和联邦法律法规。包装处理建议:注意丢弃的电池可能引起火灾,用胶带将电池端子做绝缘处理。请勿拆卸电池。完全排出容器(无泪滴,无粉末残留,小心刮拭)。容器可以回收或再利用。遵守当地、州和联邦的法律法规。

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

电池和蓄电池中使用的物质对环境和人类健康的潜在影响; 希望不将废电池和废蓄电池作为未经分类的城市废物处理,并希望将它们单独收集,以便于处理和回收利用;

The potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling;



Section 14 –运输信息 Transport Information

本报告适用于海运、空运和陆运;

This report applies to by sea, by air and by land;

锂电池的设计类型必须符合《试验和标准手册》第三部分第38.3小节的测试要求;

The Lithium Battery must be of a design type proved to meet the testing requirements of the Manual of test and criteria, Part III, subsection 38.3;

锂离子电池应满足 2022 国际航空运输协会《危险品规则》(63 版)的 3.9.2.6.1(e) 规定进行包装空运;

The Lithium Battery according to PACKING INSTRUCTION 952, 971 and belongs to Class 9 of dangerous goods of the 2022 IATA Dangerous Goods regulations 63 rd Edition 3.9.2.6.1(e) may be transported.

可按 IATA 《危险品规则》中包装说明 PI952, PI971 相关规定进行包装空运。

Can be transport by air according to the Packing Instructions 952 and Packing Instruction 971 of IATA Dangerous Goods Regulations relevant regulations.

UN 编号 UN No.	UN3171
运输专用名称 Proper Shipping Name/Description	UN3171 以电池为动力的车辆 UN3171 Battery-powered vehicle
Class 分类	Class 9 9 类危险品
运输标签 Label for conveyance	9 类危险品标签 Class 9 Hazard Label

锂电池被保护，以防止短路。这包括防止与同一封装内可能导致短路的导电材料接触;

Lithium Battery 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;

提供给进行运输的电池，电池必须包装在完全封闭电池或电池的内包装中;为了保护电池免受损坏或压缩，内包装必须置于坚固的坚硬的外包装中;

Cell and batteries offered for transport must be packed in inner packaging's that completely enclose the cell or battery; to provide protection from damage or compression to the batteries, the inner packaging's must be placed in a strong rigid outer packaging;

包装应足以避免运输、搬运和堆放过程中的机械损坏。材料和包装设计的选择应防止意外导电的发展、端子的腐蚀和水分的进入。

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

包装必须小心搬运，如果包装损坏，则存在易燃性危险;

The package must be handled with care and that a flammability hazard exists if the package is damaged;

关于运输，现引用并考虑下列规定:



With regard to transport, the following regulations are cited and considered:

-国际民用航空组织(民航组织)技术细则。

- The International Civil Aviation Organization (ICAO) Technical Instructions.

《国际航空运输协会危险品条例》

- The International Air transport Association (IATA) Dangerous Goods Regulations.

锂电池 UN 号:UN3480 或 UN3481;

UN number of lithium battery: UN3480 or UN3481;

正确发货名称/描述(技术名称):锂离子电池&设备包装的锂离子电池&设备中包含的锂离子电池;

UN Proper shipping name/Description (technical name): Lithium ion batteries & Lithium ion batteries packed

与设备配套&设备中含有锂离子电池;

with equipment & Lithium ion batteries contained in equipment;

《2020 年国际海事危险货物规则》(Amdt.40-20)

- The International Maritime Dangerous Goods Code 2020 Edition (Amdt.40-20)

对于海上使用的锂离子电池,包装要坚固,防止产品短路。

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit.

锂电池 UN 号:UN3480 或 UN3481;

UN number of lithium battery: UN3480 or UN3481;

正确发货名称/描述(技术名称):锂离子电池及锂离子电池包装。

UN Proper shipping name/Description (technical name): Lithium ion batteries & Lithium ion batteries packed

与设备配套&设备中含有锂离子电池;

with equipment & Lithium ion batteries contained in equipment;

特别规定:《国际海运危险货物规则》(IMDG) 230、310、348、957;

Special Provision: International maritime dangerous goods code (IMDG) 230, 310, 348, 957;

美国危险材料法规(HMR)依据 RSPA 发布的最终规则。

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA

美国交通部(DOT)研究和特别项目管理局(RSPA)下属的危险材料安全办公室。

- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)

Section 15 - 法规信息 Regulatory Information

危险货物规则

Dangerous Goods Regulations

国际海事组织《国际海事危险货物规则》相关规定。

IMO International Maritime Dangerous Goods Code relevant regulations.

参考联合国、国家和地方法规

Refer to U. N., national, local regulations.

Section 16 - 其他信息 Other Information

上述信息被认为是准确的,并代表了我們目前所能获得的最佳信息。不保证适销性或任何其他保证,



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