

## MSDS 报告 MSDS Report

报告编号:  
Report No.: LA2024B1594021M

样品名称 Samples	圆柱型锂离子电池 Cylindrical Li-ion Battery
样品型号 Model	18500 1200mAh 3.7V
委托单位 Applicant	深圳市创科慧科技有限公司 Shenzhen Chuangkehui Technology Co., Ltd
生效日期 Effective Date	2025-01-01

深圳市莱恩瑞斯科技有限公司

Shenzhen Lionaces Technology Co., Ltd.

报告专用章

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Tel: (86-755)-28280690



# 化学品安全技术说明书

## Material Safety Data Sheet

依据 GB/T16483-2008&ISO11014:2009 编制  
According to GB/T16483-2008&ISO11014:2009

### 第一部分 化学品及企业标识

#### Section 1 - Chemical Product and Company Identification

化学品信息										
Chemical product information										
样品名称 Sample Name	圆柱型锂离子电池 Cylindrical Li-ion Battery									
型号与规格 Model and specification	18500 1200mAh 3.7V 3.7V 1200mAh 4.44Wh									
产品推荐及限制用途 Sample Uses	N/A									
单位信息										
Company information										
实验室 Laboratory	深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology Co., Ltd.									
实验地址 Testing Address	广东省深圳市宝安区福海街道和平社区永和路骏丰工业区 B6 栋 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China									
委托单位 Applicant	深圳市创科慧科技有限公司 Shenzhen Chuangkehui Technology Co., Ltd									
委托单位地址 Applicant address	深圳市龙华区大浪街道浪口社区浪口工业园 80 号 202 金地大科技园 C1 栋 2 楼 2F, C1 Building, Jin Di Da Technology park, No.80 Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen, Guangdong, P.R.China									
生产单位 Manufacturer	四川创科慧科技有限公司 Sichuan Chuangkehui Technology Co., Ltd									
生产单位地址 Manufacturer address	四川省资阳市乐至县天童大道 1503 号 A2 栋、A4 栋 Building A2 & A4, No.1503, Tiantong Avenue, Lezhi County, Ziyang City, Sichuan Province, China.									
应急电话 Emergency telephone	13823200392									
备注 Remark	V1.0									
收样日期 Receiving Date	2024-12-23		完成日期 Completing Date	2024-12-23						
主检人： Prepared by	李文	审核人： Checked by	肖强	批准人： Approved by	刘海峰					

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## 第二部分 危险性概述 Section 2 - Hazards Identification

紧急情况概述: 无相关详细资料。

**Emergency overview:** No information available.

GHS 危险性分类: 根据化学品全球统一分类与标签制度(GHS)的规定, 不是危险物质。

**Classification according to GHS:** Not a dangerous substance according to GHS.

GHS 标签要素 Label elements	
危害类型象形图 Hazard pictogram(s)	无数据 No data available
警示词 Signal word	无数据 No data available
危险性说明 Hazard statement(s)	无数据 No data available
防范说明 Precautionary statement(s)	
预防措施 Prevention	无数据 No data available
事故响应 Response	无数据 No data available
安全储存 Safe storage	无数据 No data available
废弃处置 Disposal	无数据 No data available

物理和化学危险: 无相关详细资料。

**Physical and chemical risk:** No information available.

健康危害: 无相关详细资料。

**Health hazard:** No information available.

环境危害: 无相关详细资料。

**Environmental hazards:** No information available.

其它危害: 无相关详细资料。

**Other hazards:** No information available.

## 第三部分 成分/组成信息 Section 3 - Composition, Information on Ingredients

该物质或混合物的分类:  物质  混合物

**Classification of the substance or mixture:**  substance  mixture

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化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
镍钴锰酸锂 Lithium nickel cobalt manganate	346417-97-8	39.63
石墨 Graphite	7782-42-5	19.72
电解液 Organic electrolyte	N/A	13.61
铝 Aluminum	7429-90-5	5.79
聚(亚乙烯氟) PVDF Polyvinylidene fluoride	24937-79-9	0.58
铜 Copper	7440-50-8	9.53
丁苯橡胶 SBR Styrene-Butadiene polymer	9003-55-8	0.51
聚乙烯 Polyethylene	9002-88-4	0.05
聚丙烯 Polypropylene	9003-07-0	0.96
其他 Other	N/A	9.62

注Note: CAS: 化学文摘社Chemical Abstracts Service (Division of the American Chemical Society).

"N/A": 无数据No Data

## 第四部分 急救措施 Section 4 - First Aid Measures

总说明: 正常情况下, 不需要特别的措施。

General information: No special measures required.

吸入: 立即将人员移至通风处, 如果呼吸困难, 速进行人工呼吸抢救。如症状持续, 速就医。

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

皮肤接触: 脱去污着衣物, 用大量的水清洗, 然后清洗双手, 衣物清洗后再使用。如果症状持续, 速就医。

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

眼睛接触: 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生。

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

食入: 禁止催吐, 速就医。

After swallowing: Do not induce vomiting. Get medical attention.

急性和迟发效应

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#### Acute and delayed effects

主要症状: 无相关详细资料。

The main symptoms: No relevant details information.

健康影响: 无相关详细资料。

Health effects: No relevant details information.

对保护施救者的忠告: 无相关详细资料。

To protect the rescuers advice: No relevant details information.

对医生的建议: 需要及时的医疗处理及特别处理的症状, 无相关详细资料。

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

## 第五部分 消防措施

### Section 5 - Fire Fighting Measures

灭火剂: 使用适合当地情况和周围环境的灭火剂, 如干粉, CO<sub>2</sub>。

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO<sub>2</sub>.

特别危险性: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。在经受高温(> 150°C(302°F))时, 含有易燃电解液的电池, 可能泄漏, 点燃, 产生火花, 当损坏或滥用(如机械损伤或过度充电)时, 可能燃烧迅速与耀斑燃烧效果, 也可能引燃其他在电池附近衣服。

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Battery contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

灭火方法注意事项及防护措施: 如起火, 佩戴自主呼吸机和防护服。

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

## 第六部分 泄露应急处理

### Section 6 - Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序: 穿上保护装备, 疏散人群, 确保有足够的通风。

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

环境保护措施: 若无政府许可, 勿将材料排入周围环境。

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

泄漏化学品的收容、清除方法及所使用的处置材料: 从泄露区移除所有的火源, 隔离人员。用一个不产生粉尘的方法打扫处理泄漏物, 尽可能多地收集泄漏处理物于有标签的合适的容器中。泄露处理物禁止倒入下水道, 沟渠或水源。所有废弃物必须参照联合国, 国家, 地方性法规进行处置。

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal

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container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

防止次生灾害的预防措施：有关安全处理的资料请参阅第七部分。有关个人保护装备的资料请参阅第八部分。有关弃置的资料请参阅第十三部分。

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 第七部分 操作处置与储存 Section 7 - Handling and Storage

操作注意事项：储存时远离食物和水源。吃饭喝水前彻底清洗双手。储存有化学物的容器搬用时需防止静电的产生和积聚。

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

有关火灾及防止爆炸的资料：电池在拆开、挤压、遇火或高温情况下，会引起起火或爆炸，严禁短路或非正确操作。

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

储存注意事项：储存在一个低温，干燥，通风良好的环境。远离热源，避免长时间阳光照射。未使用时密封容器。

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

## 第八部分 接触控制/个体防护 Section 8 - Exposure Controls, Personal Protection

职业接触限值：无相关详细资料。

Occupational exposure limit: no relevant details information.

生物限值：无相关详细资料。

Biological limit: no relevant details information.

检测方法：无相关详细资料。

Detection: no relevant details information.

工程控制

一般保护和卫生措施：当处理化学物品时，应遵循一般的预防措施。远离食物和水源。立即脱掉所有脏衣服或被污染的衣物。在休息之前和工作结束之后洗手。

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

呼吸防护：高浓度的情况时，使用适当的呼吸器。

Respiratory Protection: Use suitable respirator when high concentrations are present.

个体防护设备 Personal Protection

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手防护 Hand protection	眼睛防护 Eye protection
 Protective gloves	 Tightly sealed goggles

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

外观: 蓝色

Appearance: Blue

形状: 近圆柱体

Form: Approximate cylinder

气味: 泄漏时, 有刺激性气味。

Odour: If leaking, smells of medical ether

酸碱度: 不适用

pH: Not applicable as supplied.

闪点: 针对单个组分暴露情况, 其他不适用。

Flash Point: Not applicable unless individual components exposed.

易燃度: 针对单个组分暴露情况, 其他不适用。

Flammability: Not applicable unless individual components exposed.

相对密度: 针对单个组分暴露情况, 其他不适用。

Relative density: Not applicable unless individual components exposed.

溶解性(水溶性): 针对单个组分暴露情况, 其他不适用。

Solubility (water): Not applicable unless individual components exposed

溶解性(其他): 针对单个组分暴露情况, 其他不适用

Solubility (other): Not applicable unless individual components exposed.

## 第十部分 稳定性和反应活性 Section 10 - Stability and Reactivity

稳定性: 正常情况下稳定。

Chemical stability: Stable in normal circumstances.

危险反应: 无资料。

Possibility of hazardous reactions: Data not available.

应避免条件: 火焰, 火花和其他热源, 禁忌物。

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

禁配物: 氧化剂, 酸, 碱。

Incompatibilities: Oxidizing agents, acid, base.

危险的分解产物: 二氧化碳, 一氧化碳。

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

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## 第十一部分 毒理学资料 Section 11 - Toxicological Information

对毒理学影响的信息

Information on toxicological effects

急性毒性LC50/LD50: 无相关详细资料。

Acute toxicity LD/LC50 Values relevant for classification: Not available.

注: LC50: 半数致死浓度 (lethal concentration, 50 percent kill)

LD50: 半数致死剂量 (lethal dose, 50 percent kill)

皮肤刺激/腐蚀: 无相关详细资料。

Skin irritation/corrosion: No further relevant information available.

眼睛刺激/腐蚀: 无相关详细资料。

Eyes stimulus/corrosion: No further relevant information available.

呼吸或皮肤过敏: 无相关详细资料。

Breathing or skin irritation: No further relevant information available.

生殖细胞突变性: 无相关详细资料。

Germ cell respectively: No further relevant information available.

致癌性: 无相关详细资料。

Carcinogenicity: No further relevant information available.

生殖毒性: 无相关详细资料。

Reproductive toxicity: No relevant details information.

特异性靶器官系统毒性——一次性接触: 无相关详细资料。

Specific target organ system toxicity disposable contact: No further relevant information available.

特异性靶器官系统毒性——反复接触: 无相关详细资料。

Specific target organ system toxicity, repeated contact: No further relevant information available.

吸入危害: 无相关详细资料。

Inhalation hazard: No further relevant information available.

潜在的有害效应: 无相关详细资料。

Potentially harmful effects: No further relevant information available.

## 第十二部分 生态学资料 Section 12 - Ecological Information

生态毒性

Ecological toxicity

水生毒性: 无相关详细资料。

Aquatic toxicity: No further relevant information available.

持久性和降解性: 无相关详细资料。

Persistence and degradability: No further relevant information available.

环境系统习性

Behaviour in environmental systems

潜在的生物累积性: 无相关详细资料。

Bioaccumulative potential: No further relevant information available.

土壤内移动性: 无相关详细资料。

Mobility in soil: No further relevant information available.

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生态学资料

Ecological effects

额外的生态学资料: 无相关详细资料。

Additional ecological information :No further relevant information available.

总括注解: 若无政府许可, 勿将材料排入周围环境。

General notes:Do not allow material to be released to the environment without proper governmental permits.

其他副作用: 无相关详细资料。

Other adverse effects: No further relevant information available.

## 第十三部分 废弃处置 Section 13 - Disposal Considerations

废弃处置方法建议: 请参考国家和地方的相关法规正确进行处理。

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装建议: 必须根据官方的规章来丢弃。

Cleaned packaging and Recommendation: Disposal must be made according to official regulations.

## 第十四部分 运输信息 Section 14 - Transport Information

运输标签: 电池标签, 或锂电池和钠离子电池第九类危险品标签, 或仅限货机标签

Label for conveyance: Battery Label, or Lithium Battery or Sodium Ion Battery Class 9 Label, or Cargo Aircraft only

UN 编号: 3480 & 3481

UN Number: 3480 & 3481

包装等级: N/A

Packaging Group: N/A

海洋污染物: 无

Marine pollutant: No

正确的装运名称: 锂离子电池(包括锂聚合物电池), 或锂离子电池与设备包装在一起, 或锂离子电池安装在设备中

Proper Shipping name: Lithium Ion Battery (Including Lithium Polymer Battery) , Lithium Ion Battery Packed With Equipment, Lithium Ion Battery Contained In Equipment

运输信息: 锂电池需要通过联合国《试验和标准手册》第III部分 38.3 小节相应测试要求。

锂离子电池瓦时额定值不超 100Wh, 或者锂离子电芯瓦时额定值不超 20Wh, 根据第 66 版 DGR 手册 965 第 IB 节或 966~967 第 II 节的指令可以运输。货物运输应遵守 IMDG CODE (Amendt. 42-24) 2024 版特殊规定 188 的要求, 该货物属于非限制性货物。

Transport information: Lithium batteries are required to pass the corresponding test requirements of the United Nations Manual of Tests and Standards, Part III, subsection 38.3.

The lithium-ion battery with a watt-hour rating not exceeding 100Wh or the cell with the watt-hour rating is not exceeding 20Wh, The lithium-ion battery according to Section IB of Packing Instruction 965, or Section II of Packing Instruction 966~967 of the Dangerous Goods regulations 66<sup>th</sup> Edition may be transported. The goods shall be complied with the requirements of special

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provision 188 of IMDG CODE (Amdt. 42-24) 2024 , The goods to be transport as Unrestricted goods.

## 第十五部分 法规信息 Section 15 - Regulatory Information

### 法律信息

#### Law information

- 《危险物品规则》  
《Dangerous Goods Regulations》
- 《对危险货物运输的有关规定的建议》  
《Recommendations on the Transport of Dangerous Goods Model Regulations》
- 《国际海运危险货物规则》  
《International Maritime Dangerous Goods》
- 《危险品安全运输技术指令》  
《Technical Instructions for the Safe Transport of Dangerous Goods》
- 《危险货物分类和品名编号》  
《Classification and code of dangerous goods》
- 《职业安全卫生法》  
《Occupational Safety and Health Act》 (OSHA)
- 《有毒物质控制法》  
《Toxic Substance Control Act》 (TSCA)
- 《消费产品安全法》  
《Consumer Product Safety Act》 (CPSA)
- 《联邦环境污染控制法》  
《Federal Environmental Pollution Control Act》 (FEPCA)
- 《石油污染法案》  
《The Oil Pollution Act》 (OPA)
- 《超级基金修正案和再授权法案III(302/311/312/313)》  
《Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)》 (SARA)
- 《资源保护及恢复法案》  
《Resource Conservation and Recovery Act》 (RCRA)
- 《安全饮用水法》  
《Safety Drinking Water Act》 (CWA)
- 《加州 65 提案》  
《California Proposition 65》
- 《美国联邦法规》  
《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and local laws

根据所有联邦、州和地方法律。

此MSDS符合法规 (EU) No 2020/878.

This Material Safety Data Sheet complies with the requirements of Regulation (EU) No 2020/878.

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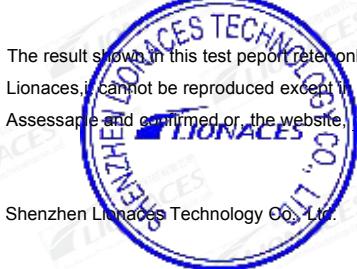
## 第十六部分 其他信息

### Section 16 - Additional Information

#### 注意 Declare to reader:

上述信息是基于现有的数据信息，在实际应用过程中可能出现其他未预料的情况，其相应信息可能需要修改，我方不承担此项责任。在操作中请根据实际情况作出相应的正确的处置。

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



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## 声 明 Statement

1、本报告无本单位报告专用章和批准人签章无效。

This report is invalid without the special seal for report of Lionaces and the signatures of approver.

2、本报告涂改和删除无效。

This report is invalid if it is blotted out and deleted.

3、委托单位对检测结果有异议，应于收到报告之日起十五日内向我司提出。

If the applicant has any questions about results, shall submit to Lionaces within 15 days.

4、本报告仅对客户所送样品负责。

This report is responsible for the sample provided by the client only.

5、未经本单位许可，不得部分复制、摘用本报告书内容。

This report shall not be reproduced except in full, or extracted, without the written approval of Lionaces.

6、委托单位必须如实提供样品和资料，有关报告中的产品信息、参数、图纸、关键元器件清单等所有产品信息均由委托单位提供，否则本单位不承担任何相关责任。

The applicant must provide samples and materials truthfully. All of information such as product information, parameters, drawings, components, etc. are provided by the applicant. Otherwise we will not take on any relevant responsibilities for this report.

----报告结束----

----End of report----

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# MSDS 报告 Report

报告编号 : AGC09599221101UA03  
Report No.

产品名称 : 可充电锂离子电芯  
PRODUCT DESIGNATION : Rechargeable Lithium iron Cell

商 标 : N/A  
BRAND NAME

样 品 型 号 : CKH 18500 1200mAh 3.7V  
MODEL NAME

委 托 单 位 : 深圳市创科慧科技有限公司  
APPLICANT : Shenzhen ChuangKeHui Technology Co., Ltd.

签 发 日 期 : 2023-01-01  
DATE OF ISSUE

检 测 标 准 : GB/T16483-2008&ISO11014:2009  
STANDARD(S)

报 告 版 本 : V1.0  
REPORT VERSION



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**报告修订记录REPORT REVISE RECORD:**

Report Revise Record:				
报告修订记录:				
Report Version 版本号	Revise Time 修改次数	Issued Date 签发日期	Valid Version 有效性	Notes 备注
V1.0	/	2023-01-01	Valid 有效	Original report 原始报告

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# 化学品安全技术说明书

## Material Safety Data Sheet

依据 GB/T16483-2008&ISO11014:2009 编制

According to GB/T16483-2008&ISO11014:2009

### 第一部分 化学品及企业标识

#### Section 1 - Chemical Product and Company Identification

化学品信息 Chemical product information			
样品名称 <b>Sample Name</b>	可充电锂离子电芯 Rechargeable Lithium iron Cell	样品型号 <b>Sample Model</b>	CKH 18500 1200mAh 3.7V
收样日期 <b>Sample Receiving Date</b>	2023-01-01	规格 <b>Rating</b>	3.7V 1200mAh 4.44Wh
单位信息 Company information			
委托单位 <b>Applicant</b>	深圳市创科慧科技有限公司 ShenZhen ChuangKeHui Technology Co., Ltd.		
委托单位地址 <b>Applicant Address</b>	深圳市龙华区大浪街道浪口社区浪口工业园 80 号 202 金地大科技园 C1 栋 2 楼 2F, C1 Building, Jin Di Da Technology Park, No.80 Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen China		
生产单位 <b>Manufacturer</b>	肇庆市创科慧科技有限公司 Zhaoqing ChuangKeHui Technology Co., Ltd.		
生产单位地址 <b>Manufacturer address</b>	肇庆市高要区金利镇金淘工业园卓铭园区 Zhuoming Area, Jintao Industrial Park, Jinli Town, Gaoyao District, Zhaoqing City, P. R. China		
联系电话 <b>Telephone</b>	0755-23159867		
传真号码 <b>Fax number</b>	—		
邮政编码 <b>Post code</b>	518000		
应急电话 <b>Emergency telephone</b>	0755-23159867		
电子邮件 <b>E-mail</b>	2585386605@qq.com		

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## 第二部分 危险性概述

## Section 2 - Hazards Identification

爆炸危险性 Explosive risk	该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods
易燃危险性 Flammable risk	该物品不属于易燃危险品 This article does not belong to the flammable material
氧化危险性 Oxidation risk	该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods
毒害危险性 Toxic risk	该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods
放射危险性 Radioactive risk	该物品不属于放射危险品 This article does not belong to the radiation of dangerous goods
腐蚀危险性 Mordant risk	该物品不属于腐蚀危险品 This article does not belong to the corrosion of dangerous goods
其他危险性 other risk	该物品为锂离子聚合物电池，瓦时率为 4.44Wh This article is Li-ion Polymer Battery, Watt hour rate 4.44Wh

## 第三部分 成分/组成信息

## Section 3 - Composition, Information on Ingredients

该物质或混合物的分类:  物质  混合物Classification of the substance or mixture:  substance  mixture

化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
锰 Manganese	7439-96-5	10-40
镍 Ni(Nickel)	7440-02-0	
钴 Cobalt	7440-48-4	
石墨 Graphite	7782-42-5	10-30
铝 Al	7429-90-5	5-10
铜 Cu	7440-50-8	7-13
聚氯乙烯 PVC	9002-86-2	1-5

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化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
六氟磷酸锂 LiPF <sub>6</sub>	21324-40-3	10-30
镍 Ni(Nickel)	7440-02-0	1-5

注Note: CAS: 化学文摘社Chemical Abstracts Service (Division of the American Chemical Society).

EC#: 欧洲现有商业化学品目录European Inventory of Existing Commercial Chemical Substances

“—”: 无数据No Data

## 第四部分 急救措施 Section 4 - First Aid Measures

**总说明:** 正常情况下, 不需要特别的措施。

**General information:** No special measures required.

**吸入:** 立即将人员移至通风处, 如果呼吸困难, 速进行人工呼吸抢救。如症状持续, 速就医。

**After inhalation:** Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

**皮肤接触:** 脱去污着衣物, 用大量的水清洗, 然后清洗双手, 衣物清洗后再使用。如果症状持续, 速就医。

**After skin contact:** Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

**眼睛接触:** 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生。

**After eye contact:** Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

**食入:** 禁止催吐, 速就医。

**After swallowing:** Do not induce vomiting. Get medical attention.

## 第五部分 消防措施 Section 5 - Fire Fighting Measures

**灭火剂:** 使用适合当地情况和周围环境的灭火剂, 如干粉, CO<sub>2</sub>。

**Suitable extinguishing agents:** Use extinguishing agent suitable for local conditions and the surrounding environment . Such as dry powder , CO<sub>2</sub>.

**特别危险性:** 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。在经受高温(> 150°C(302°F))时, 含有易燃电解液的电池, 可能泄漏, 点燃, 产生火花, 当损坏或滥用(如机械损伤或过度充电)时, 可能燃烧迅速与耀斑燃烧效果, 也可能引燃其他在电池附近衣服。

**Special hazards arising from the substance or mixture:** Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

**灭火方法注意事项及防护措施:** 请使用大量水, 干燥的化学粉末等合适的介质。如起火, 佩戴自主呼吸机和防护服。

**Attention extinguishing method and protective measures:** Please use plenty of water, dry chemical powder, etc. Wear self-contained respirator. Wear fully protective impervious suit.

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## 第六部分 泄露应急处理 Section 6 - Accidental Release Measures

**作业人员防护措施、防护装备和应急处置程序:** 穿上保护装备，疏散人群，确保有足够的通风。

**Homework personnel protective measures, protective equipment and emergency disposal procedures:**

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

**环境保护措施:** 若无政府许可，勿将材料排入周围环境。

**Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.

**泄漏化学品的收容、清除方法及所使用的处置材料:** 从泄露区移除所有的火源，隔离人员。用一个不产生粉尘的方法打扫处理泄漏物，尽可能多地收集泄漏处理物于有标签的合适的容器中。泄露处理物禁止倒入下水道，沟渠或水源。所有废弃物必须参照联合国，国家，地方性法规进行处置。

**Steps to be taken in case material is spilled or released and Waste disposal method:** Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

**防止次生灾害的预防措施:** 有关安全处理的资料请参阅第七部分。有关个人保护装备的资料请参阅第八部分。有关弃置的资料请参阅第十三部分。

**To prevent the secondary disasters prevention measures:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 第七部分 操作处置与储存 Section 7 - Handling and Storage

**操作注意事项:** 储存时远离食物和水源。吃饭喝水前彻底清洗双手。储有化学物的容器搬用时需防止静电的产生和积聚。

**Precautions for safe handling:** Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

**有关火灾及防止爆炸的资料:** 电池在拆开、挤压、遇火或高温情况下，会引起起火或爆炸，严禁短路或非正确操作。

**Information about fire and explosion protection:** Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

**储存注意事项:** 储存在一个低温，干燥，通风良好的环境。远离热源，避免长时间阳光照射。未使用时密封容器。

**Conditions for safe storage, including any incompatibilities:** Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

## 第八部分 接触控制/个体防护 Section 8 - Exposure Controls, Personal Protection

### 工程控制

#### **Engineering control**

**一般保护和卫生措施:** 当处理化学物品时，应遵循一般的预防措施。远离食物和水源。立即脱掉所有脏衣服或被污染的衣物。在休息之前和工作结束之后洗手。

**General protective and hygienic measures:** The usual precautionary measures for handling chemicals

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should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

**呼吸防护:** 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。

**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.

**通风条件:** 正常使用条件下不需要。

**Ventilation:** Not necessary under conditions of normal use.

#### 个体防护设备Personal Protection

手防护 Hand protection	眼睛防护 Eye protection
 Protective gloves	 Tightly sealed goggles

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

有关基本物理及化学特性的信息 Information on basic physical and chemical properties	
外观 Appearance	蓝色 Blue
形状 Form	圆柱形 Cylindrical
气味 Odour	无味 Odorless

## 第十部分 稳定性和反应活性 Section 10 - Stability and Reactivity

**稳定性:** 正常情况下稳定。

**Chemical stability:** Stable in normal circumstances.

**应避免条件:** 火焰, 火花和其他热源, 禁忌物。

**Conditions to Avoid:** Flames, sparks, and other sources of ignition, incompatible materials.

**禁配物:** 氧化剂, 酸, 碱。

**Incompatibilities:** Oxidizing agents, acid, base.

**危险的分解产物:** 有毒烟雾, 并可能形成过氧化物。

**Hazardous Combustible Products:** toxic fumes and may form peroxides.

## 第十一部分 毒理学资料 Section 11 - Toxicological Information

**标志及症状:** 无, 除非电池破裂。

**Signs & symptoms:** None, unless battery ruptures.

内部物质暴露的情况下, 蒸汽烟雾可能对眼睛和皮肤的刺激性。

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In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.  
吸入：对肺有刺激性。

**Inhalation:** Lung irritant.

皮肤接触：对皮肤刺激性。

**Skin contact:** Skin irritant.

眼睛接触：对眼睛有刺激性。

**Eye contact:** Eye irritant.

食入：吞下中毒。

**Ingestion:** Poisoning if swallowed.

## 第十二部分 生态学资料 Section 12 - Ecological Information

对哺乳动物的影响：目前未知。

**Mammalian effects:** None known at present.

生态毒性：目前未知。

**Eco-toxicity:** None known at present.

生物体内积累：慢慢地生物降解。

**Bioaccumulation potential:** Slowly Bio-degradable.

环境危害：目前没有已知的环境危害。

**Environmental fate:** None known environmental hazards at present.

## 第十三部分 废弃处置 Section 13 - Disposal Considerations

废弃处置方法建议：请参考国家和地方的相关法规正确进行处理。

**Waste treatment methods and Recommendation:** Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装建议：必须根据官方的规章来丢弃。

**Uncleaned packaging and Recommendation:** Disposal must be made according to official regulations.

## 第十四部分 运输信息 Section 14 - Transport Information

联合国危险货物编号 <b>UN Number</b>	UN3480 UN3481
<b>UN 运输专用名称 UN Proper shipping name</b>	锂离子电池 Lithium Ion Batteries 锂离子电池与设备打包 Lithium Ion Batteries Packed With Equipment 锂离子电池装在设备中 Lithium Ion Batteries Contained In Equipment
<b>运输危险等级 Transport hazard class(es)</b>	9
<b>包装组别</b>	N/A

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Packing group	
海运污染物质 Marine pollutant	否 No

**运输信息:** 该锂电池 (CKH 18500 1200mAh 3.7V 3.7V 1200mAh) 已通过UN38.3测试。

**Transport information:** The Lithium Battery (CKH 18500 1200mAh 3.7V 3.7V 1200mAh) has passed the test UN38.3.

运输过程中请根据危险品规则DGR第64版包装规定965第IB部分, 966/967第II部分执行。

According to the Packing Instruction 965 section IB, 966/967 section II of IATA DGR 64th Edition for transportation.

运输过程中请根据海运危险品规则IMDG (40-20)特殊规定188, 或者《联合国危险货物运输的建议书规章范本》(22)执行, 该产品属于非限制货物。

According to the special provision 188 of IMDG (40-20) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (22). The package is subjected to non-restricted goods.

更多关于锂离子电池运输, 测试, 包装等相关规定请参见网址<http://www.labelmaster.com>.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

电池相互隔开并防止短路, 泄露, 并装放在结实的容器内运输。

**注:** 该电池在运输过程中应防止剧烈振动、冲击或挤压, 防止日晒雨淋。具体细节请参照本文第七部分操作处置与储存。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

**备注:** 电池净重<5kg(空运, 电池与设备打包运输)。

**Note: Batteries weight in the package<5kg(By air, Batteries packed with equipment).**

**备注:** 电池净重<5kg(空运, 电池装在设备中运输)。

**Note: Batteries weight in the package<5kg(By air, Batteries installed in equipment).**

**运输方式:** 空运, 海运, 铁路, 公路。

**Transport Fashion:** By air, by sea, by railway, by road.

## 第十五部分 法规信息 Section 15 - Regulatory Information

此MSDS符合法规 (EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

下列法律、法规、规章和标准对该物质或混合物的管理做了相应规定:

The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
锰 Manganese	7439-96-5	列入 Listed	列入 Listed	DSL	列入 Listed
镍 Ni(Nickel)	7440-02-0	列入 Listed	列入 Listed	DSL	列入 Listed
钴 Cobalt	7440-48-4	列入 Listed	列入 Listed	DSL	列入 Listed
石墨 Graphite	7782-42-5	列入 Listed	列入 Listed	DSL	列入 Listed

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组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
铝 Al	7429-90-5	列入 Listed	列入 Listed	DSL	列入 Listed
铜 Cu	7440-50-8	列入 Listed	列入 Listed	DSL	列入 Listed
聚氯乙烯 PVC	9002-86-2	列入 Listed	列入 Listed	DSL	未列入 Not Listed
六氟磷酸锂 LiPF <sub>6</sub>	21324-40-3	列入 Listed	列入 Listed	NDSL	列入 Listed
镍 Ni(Nickel)	7440-02-0	列入 Listed	列入 Listed	DSL	列入 Listed

注: EINECS: 欧盟现有化学物质名录 (European Inventory of Existing Chemical Substances)

ELINCS: 欧洲已申报化学物质名录 (European List of Notified Chemical Substances)

DSL: 加拿大国内化学物质名录 (Canadian Domestic Chemical Substances)

IECSC: 中国现有化学物质名录 (Inventory of Existing Chemical Substances in China)

NDSL: 加拿大非国内化学物质名录 (Canadian non-domestic Chemical Substances)

NLP: 欧盟不被认为是聚合物的名录

TSCA: 美国TSCA物质名录 (Toxic Substances Control Act of USA)

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

### 注意 Declare to reader:

上述信息是基于现有的数据信息，在实际应用过程中可能出现其他未预料的情况，其相应信息可能需要修改，我方不承担此项责任。在操作中请根据实际情况作出相应的正确的处置。

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

主检人 Prepared by

肖旭东

审核人 Checked by

叶文兵

批准人 Approved by

康志伟

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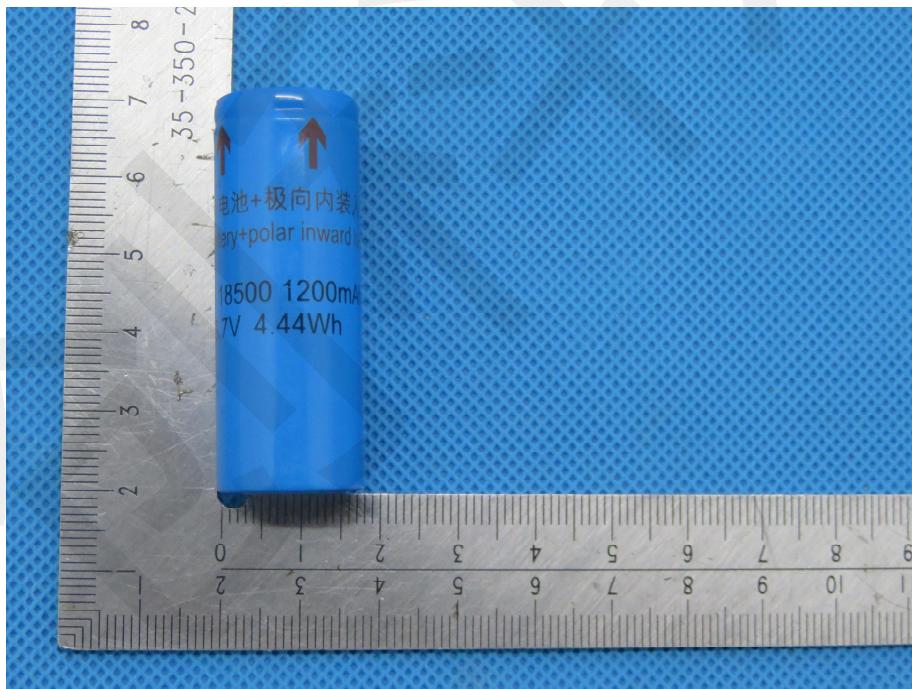
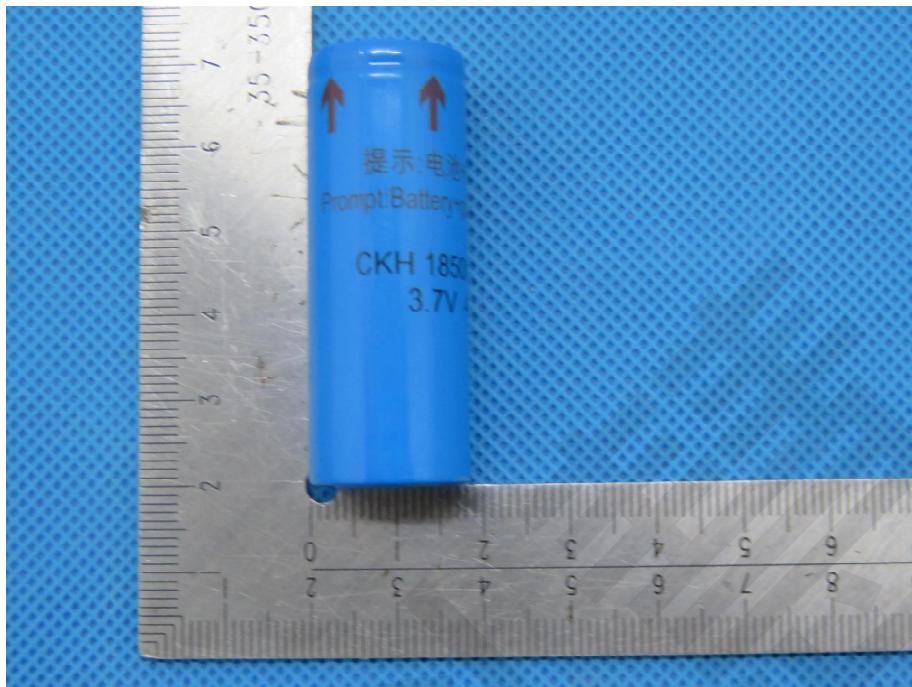
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样品图片:

Sample Photos:



鑫宇环仅对原报告照片中的样品负责  
AGC authenticate the photo on original report only

---报告结束 End of Report---

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7. 如因使用本公司任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. 若需要在法院审理程序或仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 电子版报告更改后将不被追回,客户有义务将更改后的报告提供给使用原报告的相关方。The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. 该测试报告的支持数据和信息本公司保存 6 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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三帕认证  
CPUP TECHNOLOGY&SERVICE



真伪查询

# Material Safety Data Sheet

## 化学品安全技术说明书

**Sample Name:** Ni-MH Battery

样品名称: 镍氢电池

**Model:**

型号: 2/3AA600mAh 1.2V

**Applicant:** Wenzhou Sanjin Battery Co., Ltd.

申请商: 温州三金电池有限公司

**Report No.:** WZSJ20241122MSDS03

报告编号:

**Category:** MSDS

报告类别:

广州三帕认证技术服务有限公司

Guangzhou CPUP Certification Technology Service Co., Ltd.



Guangzhou CPUP Certification Technology Service Co., Ltd.

Room C101/C102/C103/C104, No.9, Hengji Road, Yunxing Zhukeng, Shiqiao Street, Panyu District, Guangzhou, Guangdong, China  
Tel: +86 020-31127037 E-mail: info@cp-up.com http://www.cp-up.com

Section 1 - Chemical and Company Identification 第一部分-化学品及企业标识							
Sample Name 样品名称	Ni-MH Battery 镍氢电池						
Model/型号	2/3AA600mAh 1.2V						
Ratings/额定参数	1.2V, 600mAh, 0.72Wh						
Applicant 申请商	Wenzhou Sanjin Battery Co., Ltd. 温州三金电池有限公司						
Applicant address 申请商地址	No. 609, Haigong Avenue, Haicheng Street, Longwan District, Wenzhou City, Zhejiang Province 浙江省温州市龙湾区海城街道海工大道 609 号						
Manufacturer 制造商	Wenzhou Sanjin Battery Co., Ltd. 温州三金电池有限公司						
Manufacturer Contact information 制造商联系信息	<table border="1"> <tr> <td>address 地址</td><td>No. 609, Haigong Avenue, Haicheng Street, Longwan District, Wenzhou City, Zhejiang Province 浙江省温州市龙湾区海城街道海工大道 609 号</td></tr> <tr> <td>Tel./应急电话</td><td>0577-86557988</td></tr> <tr> <td>Email/邮箱</td><td>sanjinbattery@163.com</td></tr> </table>	address 地址	No. 609, Haigong Avenue, Haicheng Street, Longwan District, Wenzhou City, Zhejiang Province 浙江省温州市龙湾区海城街道海工大道 609 号	Tel./应急电话	0577-86557988	Email/邮箱	sanjinbattery@163.com
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Tel./应急电话	0577-86557988						
Email/邮箱	sanjinbattery@163.com						

Section 2 - Hazards Identification 第二部分-危险性概述
<b>Hazards Identification:</b> 危险性描述
Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients 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害的。
<b>Primary Route (s) of Exposure:</b> 接触途径
inhalation, ingestion, Skin contact and Eye contact. 吸入、食入、皮肤接触、眼睛接触。
<b>Potential Health Effects:</b> 潜在健康影响
<b>inhalation:</b> Vapors or mists from a ruptured battery may cause respiratory irritation. 吸入：破裂的电池散发出来的气雾会引起呼吸道刺激。
<b>Ingestion:</b> The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. 食入：电池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。
<b>Skin:</b> 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。
<b>Eye:</b> 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。

Section 3- Composition/Information on Ingredients 第三部分-成分/组成信息		
Chemical Name 化学名称	CAS Number CAS 号 (化学文摘登记号)	Concentration or concentration ranges (%) 浓度或浓度范围(%)
Nickel hydroxide	12054-48-7	22.2
Iron	7439-89-6	39.19
Cobalt oxide	1307-96-6	1
Lithium hydroxide	1310-66-3	1
Potassium hydroxide (Liquid)	1310-58-3	5.16
Sodium hydroxide	1310-73-2	1.32
Polypropylene	9003-07-0	6.04
Lanthanum	7439-91-0	24.09

Note: CAS number is Chemical Abstract Service Registry Number.  
注意: CAS 号是化学文摘服务注册号。

N/A=Not applicable.  
N/A=不适用

Section 4- First Aid Measure 第四部分-急救措施	
Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical 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，在专业人士的指导下催吐，速就医。
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 脱下已污染衣服，用大量的水冲洗至少 15 分钟，速就医。
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 15 分钟，如刺激持续发生，请求助于医生。

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. 火灾时可释放有害浓烟、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，锂氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水，干沙等合适的灭火介质。

<b>Attention in Fire-extinguishing</b> <b>灭火注意事项</b>	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。
---	--

<b>Section 6- Accidental Release Measure</b> 第六部分-泄漏应急处理	
<b>Personal Precautions, protective equipment, and emergency procedures</b> 个人预防措施、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。
<b>Environmental Precautions</b> 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。
<b>Methods and materials for Containment</b> 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，可以用干沙或沙土来遏制液体泄露，立即清理泄漏。
<b>Methods and materials for cleaning up</b> 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(干沙或沙土)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。

<b>Section 7- Handling and Storage</b> 第七部分-操作处置与储存	
<b>Handling</b> 操作	Don't handing 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。
<b>Storage</b> 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 period storage: 25±5°C, 60±25%R.H 长期存储: 25±5°C, 相对湿度 60±25% 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 equipments 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

Appearance: Green  外观颜色：绿色
Physical state: Solid  物理状态：固体
Form: Approximate Cylinder  形状：近圆柱体
Odor: Odorless  气味：无气味
Solubility: Partial soluble in water  溶解度：部分溶于水

### 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。
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<b>Conditions to Avoid</b> 应避免的条件	Heat above 70°C or 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。
<b>Hazardous Decomposition Products</b> 危害分解物	Toxic Fumes, and may form peroxides. 有毒烟雾，并可能形成过氧化物。
<b>Possibility of Hazardous Reaction</b> 危险反应的可能性	If leaked, forbidden to contact with strong oxidizers ,mineral acids ,strong alkalis, halogenated hydrocarbons. 如果发生泄露，避免与强氧化剂，无机酸，强碱，卤代烃接触。

### Section 11 - Toxicological Information

#### 第十一部分-毒理学信息

<b>Irritation</b> 刺激	In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin. 内部物质暴露的情况下，蒸汽烟雾可能对眼睛和皮肤产生刺激性。
<b>Sensitization</b> 致敏	Not applicable. 不适用
<b>Reproductive Toxicity</b> 再生毒性	Not applicable. 不适用
<b>Toxicologically Synergistic Materials</b> 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

<b>General note</b> 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。
<b>Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity</b> 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
<b>Mobility in soil</b> 土壤中移动性	Not applicable. 不适用
<b>Persistence and Degradability</b> 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

<b>Waste Treatment</b> 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。
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<b>Attention for Waste Treatment</b> <b>废弃注意事项</b>	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

The battery shall be 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;

该电池必须做好防短路保护。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。

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 Proper shipping name/Description (technical name): Batteries, Nickel-metal Hydride

UN 合适的运输名称/描述(技术名称): 电池，镍氢

UN number: N/A

UN 编号: N/A

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

UN Packing Group: N/A

UN 包装类别: 不适用

The battery can be shipped by air in according to special provision A199 of the 2025 IATA Dangerous Goods regulations 66<sup>th</sup> Edition.

该电池可以根据 2025 年 IATA 危险物品规则第 66 版特殊条款 A199 运输。

-The international Maritime Dangerous Goods (IMDG) Code.

-国际海运危险货物(IMDG)规则。

UN number: UN3496 (100kg gross mass or more) or N/A (less than 100kg gross mass);

UN 编号: UN3496(总质量大于等于 100Kg)或不适用 (总质量小于 100Kg)

UN Proper shipping name/Description (technical name): Batteries, Nickel-metal Hydride

UN 合适的运输名称/描述(技术名称): 电池，镍氢

UN Classification (Transport hazard class): Class 9(100kg gross mass or more) or Not applicable (less than 100kg gross mass);

UN 分类(运输危险类别): 9 类危险品(总质量大于等于 100Kg)或不适用 (总质量小于 100Kg)

UN Packing Group: Not applicable

UN 包装类别: 不适用

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EmS No.: F-A, S-I

Ems 编号: F-A, S-I

When loaded in a cargo transport unit in a total quantity of less than 100kg gross mass, The battery is not restricted according to IMO IMDG Code (inc. Amendment 42-24) special provision 963.

当装载货物总质量小于 100kg, 海运按照国际海事组织《国际海运危险货物规则》(42-24 版) 特殊条款 963 可按普通货物条件办理。

### Section 15 - Regulatory Information

#### 第十五部分-法规信息

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。

The international Maritime Dangerous Goods (IMDG) Code.

国际海运危险货物(IMDG)规则。

### Section 16 - Additional Information

#### 第十六部分-附加信息

Compiler 编制人: Alex Huang

Reviewer 审核人: Tracy Chen

Approver 批准人: Leo Zhi

Issue Date 签发日期: 2024-12-09

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Compile unit 编制单位:

Guangzhou CPUP Certification Technology Service Co., Ltd.

广州三帕认证技术服务有限公司

Room C101/C102/C103/C104, No.9, Hengji Road, Yunxing Zhukeng, Shiqiao Street, Panyu District, Guangzhou, Guangdong, China

广州市番禺区市桥街云星珠坑村横基路 9 号 C101、C102、C103、C104 室

Tel./电话: 0086-20-31127037 Web/网址: [www.cp-up.com](http://www.cp-up.com) Email/邮箱: [info@cp-up.com](mailto:info@cp-up.com)

Other Information 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 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.

Report No.: WZSJ20241122MSDS03

在我们看来上面的信息是准确的，这是我们目前能提供的最佳的信息。但是，对于这些信息，我们不对商品的性能做任何明示的或者暗示的保证，我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警，但是这仅仅只是给您做参考、考量和调查。这份安全技术说明书提供了安全处理和使用该产品的指南，但是它没有，也不能对所有可能发生的情景提出建议，所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

--End of report--

--报告结束--

## SDS Service Summary

No.: SHAEC25000014701 Date: 08 Jan 2025 Page 1 of 1

SGS Job No.	:	SHP24-042660
Applicant	:	Yuyao Weili Spring Co.,Ltd
Product Name	:	Hair Clipper Lubricant Bottle
Composition/Ingredient of product (as per applicant submission)	:	See section 3 Composition/information on ingredients on the SDS
Job Receiving Date	:	02 Jan 2025
Last Information Date	:	03 Jan 2025
SDS Preparation Period	:	02 Jan 2025-06 Jan 2025
Service Requested	:	Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.
Summary	:	As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

### Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.

SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.



Cathy Cai  
Project Engineer

**Safety data sheet**  
**Regulation (EC) No. 1907/2006 and 1272/2008**

Printing date 06.01.2025

Version number 1

Revision: 06.01.2025

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Hair Clipper Lubricant Bottle
- **CAS Number:**  
8020-83-5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Lubrication, suitable for plastic and hardware materials
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
Yuyao Weili Spring Co.,Ltd  
No.42 Sixty Mutou New Village,Hudi Village,Linshan Town,Yuyao City,Zhejiang Province  
Tel: 0574-62067097  
E-mail: 469689178@qq.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**  
IRELAND  
National Poisons Information Centre  
Tel: +353 (01) 809 2566 (For healthcare professionals)  
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** SHP24-042660; SHAEC25000014701

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.

- **Classification system:**

The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

- 
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**



GHS08

- **Signal word Danger**
- **Hazard-determining components of labelling:**  
Hydrocarbon oils
- **Hazard statements**  
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Trade name: Hair Clipper Lubricant Bottle**

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**  
8020-83-5 Hydrocarbon oils
- **Remark:** This product contains substance Hydrocarbon oils (CAS No.8020-83-5 ) 100% by weight.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear fully protective suit.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

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**• 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Dispose contaminated material as waste according to section 13.

**• 6.4 Reference to other sections**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

**SECTION 7: Handling and storage****• 7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
 Keep receptacles tightly sealed.  
 Keep away from heat and direct sunlight.  
 Prevent formation of aerosols.  
 Avoid contact with skin and eyes.

For the general occupational hygienic measures refer to section 8.

**• Information about fire - and explosion protection:** Normal measures for preventive fire protection.**• 7.2 Conditions for safe storage, including any incompatibilities:****• Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
 Store only in the original receptacle.  
**• Information about storage in one common storage facility:** Store away from foodstuffs.  
**• Further information about storage conditions:**  
 Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.

**• 7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****• 8.1 Control parameters****• Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**• DNELs:** Data not available**• PNECs:** Data not available**• Additional information:** The lists valid during the making were used as basis.**• 8.2 Exposure controls****• Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:****• Appropriate engineering controls:**

Keep away from foodstuffs, beverages and feed.  
 Wash hands before breaks and at the end of work.  
 See Section 7 for information about design of technical facilities.

**• Individual protection measures, such as personal protective equipment****• Respiratory protection:** Suitable respiratory protective device recommended.**• Hand protection**

Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**· Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye/face protection**



Tightly sealed goggles

**· Body protection: Protective work clothing**

**· Thermal hazards: Not required for normal conditions of use.**

**· Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

**SECTION 9: Physical and chemical properties**

**· 9.1 Information on basic physical and chemical properties**

<b>· Physical state</b>	Liquid
<b>· Colour:</b>	Transparent
<b>· Odour:</b>	Weak odor
<b>· Odour threshold:</b>	Data not available
<b>· Melting point/freezing point:</b>	Data not available
<b>· Boiling point or initial boiling point and boiling range</b>	120-185 °C
<b>· Flammability</b>	Burn with an open flame.
<b>· Lower and upper explosion limit</b>	
<b>· Lower:</b>	Data not available
<b>· Upper:</b>	Data not available
<b>· Flash point:</b>	185 °C
<b>· Auto-Ignition temperature:</b>	Data not available
<b>· Decomposition temperature:</b>	Data not available
<b>· pH</b>	Data not available
<b>· Viscosity:</b>	
<b>· Kinematic viscosity</b>	Data not available
<b>· Dynamic viscosity</b>	Data not available
<b>· Solubility</b>	
<b>· water:</b>	Insoluble
<b>· Partition coefficient n-octanol/water (log value)</b>	Data not available
<b>· Vapour pressure:</b>	Data not available
<b>· Density and/or relative density</b>	
<b>· Density:</b>	Data not available
<b>· Relative density</b>	Data not available
<b>· Relative vapour density:</b>	Data not available
<b>· Particle characteristics</b>	Not applicable

**· 9.2 Other information**

**· Appearance:**

Liquid

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<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Not applicable
<b>Flammable gases</b>	Not applicable
<b>Aerosols</b>	Not applicable
<b>Oxidising gases</b>	Not applicable
<b>Gases under pressure</b>	Not applicable
<b>Flammable liquids</b>	Not applicable
<b>Flammable solids</b>	Not applicable
<b>Self-reactive substances and mixtures</b>	Not applicable
<b>Pyrophoric liquids</b>	Not applicable
<b>Pyrophoric solids</b>	Not applicable
<b>Self-heating substances and mixtures</b>	Not applicable
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable
<b>Oxidising liquids</b>	Not applicable
<b>Oxidising solids</b>	Not applicable
<b>Organic peroxides</b>	Not applicable
<b>Corrosive to metals</b>	Not applicable
<b>Desensitised explosives</b>	Not applicable
<b>Other safety characteristics</b>	Data not available

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** No decomposition if used according to specification.
- 10.2 Chemical stability** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - Acute toxicity** Based on available data, the classification criteria are not met.
  - LD/LC50 values relevant for classification:** Data not available
  - Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
  - Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
  - Carcinogenicity:** Based on available data, the classification criteria are not met.
  - Reproductive toxicity:** Based on available data, the classification criteria are not met.
  - STOT-single exposure:** Based on available data, the classification criteria are not met.
  - STOT-repeated exposure:** Based on available data, the classification criteria are not met.
  - Aspiration hazard:** May be fatal if swallowed and enters airways.
  - 11.2 Information on other hazards**
  - Endocrine disrupting properties**
- |   |
|---|
| Substance is not listed.  |
| <b>Other information</b> No further relevant information available. |

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### SECTION 12: Ecological information

- **12.1 Toxicity**  
 · **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**  
 · **PBT:** Not applicable.  
 · **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
 The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**  
 · **Recommendation**  
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**  
 · **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b> · ADR/RID/ADN, IMDG, IATA	Not applicable
· <b>14.2 UN proper shipping name</b> · ADR/RID/ADN, IMDG, IATA	Not applicable
· <b>14.3 Transport hazard class(es)</b> · ADR/RID/ADN, IMDG, IATA · Class · Label	Not applicable Not applicable
· <b>14.4 Packing group</b> · ADR/RID/ADN, IMDG, IATA	Not applicable
· <b>14.5 Environmental hazards:</b> · Marine pollutant:	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>14.8 Transport/Additional information:</b>	Not dangerous according to the above specifications
· <b>UN "Model Regulation":</b>	Not applicable

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** Substance is not listed.
  - **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**  
Substance is not listed.
  - **Regulation (EU) No 649/2012**  
Substance is not listed.
  - **REGULATION (EU) 2019/1148**  
· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
Substance is not listed.
  - **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**  
Substance is not listed.
  - **Regulation (EC) No 273/2004 on drug precursors**  
Substance is not listed.
  - **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
Substance is not listed.
  - **REGULATION (EU) 2024/590 on substances that deplete the ozone layer**  
Substance is not listed.
  - **Other regulations, limitations and prohibitive regulations**
  - **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (7/11/2024)**  
Substance is not listed.
  - **REACH Regulation Annex XVII Restriction (19/9/2024)**  
*See Section 16 for information about restriction of use.*  
Substance is not listed.
  - **REACH Regulation Annex XIV Authorization List (13/11/2023)**  
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- \*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

#### **DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Asp. Tox. 1: Aspiration hazard – Category 1

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*End of document*

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