

密封金属氢化物镍蓄电池

Sealed Rechargeable Nickel-Metal Hydride Battery (Ni-MH)

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 identification

产品名称: Product Name:	镍金属氢化物电池 Nickel Metal Hydride Battery
推荐用途: Recommended Uses:	给便携式用电器（器械）提供低压直流电能 Used as DC Power of Personal care, Vacuum cleaner, Lighting, Electrical tool , Digital products and so on.
限制用途: Restrictions on use:	无资料 N/A

公司信息

Company identification

公司名称: Company Name:	深圳市豪鹏科技股份有限公司 Shenzhen Highpower Technology Co., Ltd.
地址: Address:	中国广东省深圳市龙岗区平湖街道新厦大道 68 号 68 Xinxia Road, Pinghu Street, Shenzhen, Guangdong, China
邮政编码 Post code:	518111
电子邮件地址 E-mail:	Marketing@highpowertech.com
电话 Telephone :	+86-755-89686533
传真 Fax:	+86-755-89686916
应急电话: Emergency telephone:	+86-755-89686147

备注：该产品可被归类为不含有有意释放物质的物品，且不属于法规（EC）No 1907/2006 & 29CFR Part 1910.1200 所要求编制 SDS 的范围内。本 SDS 仅作参考之用。

Remark: This product is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC)No 1907/2006 & 29CFR Part 1910.1200. This SDS is generated for applicant' s reference only.

第二部分 危险性描述

Section 2 - Hazards Identification

紧急情况概述:本产品是一个电池。此物出售时暴露的安全信息已给出。产品的预期用途不会导致化学物质的暴露。如有破裂，存在以下危害。

Emergency overview: This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

紧急情况概述:无

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

Emergency overview: N/A

根据 GHS 分类

Classification according to GHS

根据 GHS, 这不是危险物质。

Not a dangerous substance according to GHS.

标签元素

Label elements

危险象形图: Hazard pictogram(s):	Not available 不可用
信号词: Signal word:	Not available 不可用
风险声明(s): Hazard statement(s):	Not available 不可用

防范声明

Precautionary statement(s)

预防: Prevention:	Not available 不可用
回应: Response:	Not available 不可用
处理: Disposal:	Not available 不可用

环境危害:无相关资料。

Environmental hazards: No relevant information.

重要症状:有关详细信息, 请参阅第 11 节。

Important symptoms: See Section 11 for more information.

急救概述:如发生意外或身体不适, 应立即就医。有关更多信息, 请参阅第 4 节。

Emergency overview: In case of accident or if you feel unwell, seek medical advice immediately.
See Section 4 for more information.

第三部分 成分/组成信息

Section 3 - Composition/Information on Ingredients

化学品性质: 混合物

Chemical characterization: Mixture

描述 Description:

由以下含有无害添加剂的成份组成的混合物。

Mixture of the substances listed below with nonhazardous additions.

危险说明请参阅第十六部分。

For the wording of the listed hazard statements refer to section 16.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

化学名称 Chemical Composition	CAS No.	分子式 Formula	百分含量 Composition (in % by weight)
氢氧化镍 Nickel-dihydroxide (solid)	12054-48-7	Ni (OH) ₂	15 - 22
铁 Iron	7439-89-6	Fe	16 - 20
镍 Nickel	7440-02-0	Ni	30 - 40
锰 Manganese	7439-96-5	Mn	0.3 - 1.5
镧 Lanthanum	7439-91-0	La	1.7 - 4.5
钴 Cobalt	7440-48-4	Co	1.5 - 2.5
氢氧化钾 Potassium-hydroxide	1310-58-3	KOH	1 - 2
聚乙烯 Polyethylene	9002-88-4	PE	0 - 0.6
铈 Cerium	7440-45-1	Ce	0.29 - 0.9
钕 Neodymium	7440-00-8	Nd	0 - 1
铝(金属) Aluminium (metal)	7429-90-5	Al	0 - 1
氢氧化钠 Sodium-hydroxide	1310-73-2	NaOH	1 - 2
氢氧化锂 Lithium-hydroxide	1310-65-2	LiOH	0.1 - 0.5
聚四氟乙烯 Poly tetrafluoroethylene	9002-84-0	PTFE	0 - 0.1
纤维素, 羧甲基醚, 钠盐 Cellulose, carboxymethyl ether, sodium salt	9004-32-4	CMC	0 - 0.1
聚丙烯 Polypropylene	9003-07-0	PP	1 - 3
苯乙烯聚合物与 1,3-丁二烯 Styrene polymer with 1,3-butadiene	9003-55-8	SBR	0.1 - 0.5
氢氧化钴 Cobalt hydroxide	21041-93-0	Co (OH) ₂	0.5 - 2
氢氧化锌 Zinc-hydroxide	20427-58-1	Zn (OH) ₂	0 - 0.1
水 Water	7732-18-5	H ₂ O	0.15 - 0.23

第四部分 急救措施

Section 4 - First Aid Measures

4.1 急救措施要领 Description of first aid measures:

总说明 General information:

正常情况下不需要特别的措施。No special measures required.

马上脱下染有该产品的衣服。Immediately remove any clothing soiled by the product.

中毒的症状可能会在几个小时以后才出现，因此在发生事故之后起码要有 48 小时的医疗观察。

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

吸入 After inhalation:

供给新鲜空气并且确保会叫医生。万一病人不清醒时，请让病人侧躺以便移动。

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

皮肤接触：马上用水和肥皂进行彻底的冲洗。

After skin contact: Immediately wash with water and soap and rinse thoroughly.

眼睛接触 After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

食入 After skin contact:

禁止催吐。马上召唤医生。

Do not induce vomiting. Call for a doctor immediately.

喝大量的清水和提供新鲜的空气。马上召唤医生。

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 最重要的急慢性症状及其影响 Most important symptoms and effects, both acute and delayed: 无相关详细资料。No further relevant information available.

4.3 最重要的急慢性症状及其影响 Indication of any immediate medical attention and special treatment needed: 无相关详细资料。No further relevant information available.

对医生的特别提示 Notes to the doctor: 无可用数据。No further relevant information available.

第五部分 消防措施

Section 5 - Fire Fighting Measures

5.1 适用灭火剂 Suitable extinguishing media:

使用适合当地情况和周围环境的灭火剂。如干粉、CO₂。

Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

5.2 物质或混合物的特别危害: Special hazards arising from the substance or mixture:

电池在火灾情况下可能爆裂并释放有害的分解产物。当损坏或滥用时(例如机械损坏或电气过度充电);可快速燃烧,具有燃烧效果;可能会点燃衣服附近的其他电池。

Battery may burst and release hazardous decomposition products when exposed to a fire situation. 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.

5.3 给消防人员的资料 Advice for firefighters:

防护装备 Protective equipment: 口腔呼吸保护装置。Mouth respiratory protective device.

5.4 不适用灭火剂 Unsuitable extinguishing media:

无相关详细资料。No data available.

5.5 特殊灭火方法 Special fire-fighting methods:

无相关详细资料。No further relevant information available.

第六部分 泄漏应急处理

Section 6 - Accidental Release Measures

6.1 个人防护措施、防护装备和应急处置程序

Personal precautions, protective equipment and emergency procedures:

装上呼吸保护装置。

Mount respiratory protective device.

带上保护设备。让未受到保护的人们远离。

Wear protective equipment. Keep unprotected persons away.

6.2 环境保护措施 Emergency procedures:

切勿让产品接触到污水系统或任何水源。

Do not allow product to reach sewage system or any water course.

如果渗入了水源或污水系统,请通知有关当局。

Inform respective authorities in case of seepage into water course of sewage system.

切勿让其进入下水道/水面或地下水。

Do not allow to enter sewers/surface or ground water.

6.3 收容和清除泄漏物的方法及材料:

使用中和剂。Use neutralizing agent.

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。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.

根据第 13 部分弃置受污染物。Dispose contaminated material as waste according to section 13. 确保有足够的通风装置。Ensure adequate ventilation.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

所有废弃物必须参照联合国, 国家, 地方性法规进行处置。All waste must refer to the United Nations, the national and local regulations for disposal.

6.4 参照其他部分 Reference to other sections:

有关安全处理的资料请参阅第七部分。See Section 7 for information on safe handling.

有关个人防护装备的资料请参阅第八部分。See Section 8 for information on personal protection equipment.

有关弃置的资料请参阅第十三部分。See Section 13 for disposal information.

第七部分 操作处置与储存

Section 7 - Handling and Storage

7.1 安全操作处置的预防措施 Precautions for safe handling:

避免短路电池。避免电池的机械损坏。不要撕开或拆卸。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。防止所有接触, 包括吸入。当有接触危险时, 穿戴防护服。在通风良好的区域使用。防止本品在低洼处汇集。

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

一般职业性卫生措施请参阅第八部分。For the general occupational hygienic measures refer to Section 8.

有关火灾及防止爆炸的资料 Information about fire-and explosion protection: 提供呼吸保护装置 Keep respiratory protective device available.

7.2 安全储存条件, 包括任何不兼容性

Conditions for safe storage, including any incompatibilities:

储存在一个低温、干燥、通风良好的环境。远离热源、火光、明火、热表面, 避免长时间阳光照射。

Store in a cool, dry, well-ventilated place. Keep away from heat, Sparks, Open flames, hot surfaces, avoiding the long time of sunlight.

储存库和容器需要达到的要求 Requirements to be met by storerooms and receptacles: 没有特别的要求。No special requirements.

有关储存于共用储存设施的资料 Information about storage in one common storage facility: 不要求。Not required.

有关储存条件的更多资料 Further information about storage conditions: 将容器密封。Keep container tightly sealed.

7.3 特定最终用途 Specific and use(s): 无相关详细资料。No further relevant information available.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

第八部分 接触控制/个体防护

Section 8 - Exposure Controls/ Personal Protection

8.1 控制参数 Control parameters

在工作场所需要限值监控的成份

Ingredients with limit values that require monitoring at the workplace:

CAS No.	ACGIH	NIOSH	OSHA
12054-48-7	TLV-TWA 0.2mg/m ³	N/A	PEL-TWA 1mg/m ³
7439-89-6	N/A	N/A	PEL-TWA 5mg/m ³ PEL-TWA 15mg/m ³
7440-02-0	TLV-TWA 1.5mg/m ³	REL-TWA 0.015mg/m ³	PEL-TWA 1mg/m ³
7439-96-5	TLV-TWA 0.1mg/m ³ ; TLV-TWA 0.02mg/m ³	RELS-TWA 1mg/m ³ RELS-STEL 3mg/m ³	PELs-TWA 5mg/m ³ PELs-TWA 15mg/m ³ PELs-Peak 5mg/m ³
7439-91-0	N/A	N/A	N/A
7440-48-4	TLV-TWA 0.02mg/m ³	RELS-TWA 0.05mg/m ³	PELs-TWA 0.1mg/m ³
1310-58-3	TLV-Peak 2mg/m ³	REL-Peak 2mg/m ³	N/A
9002-88-4	N/A	N/A	N/A
7440-45-1	N/A	N/A	N/A
7440-00-8	N/A	N/A	N/A
7429-90-5	TLV-TWA 1mg/m ³	RELS-TWA 5mg/m ³	PELs-TWA 5mg/m ³ PELs-TWA 15mg/m ³
1310-73-2	TLV-Peak 2mg/m ³	REL-Peak 2mg/m ³	PEL-TWA 2mg/m ³
1310-65-2	N/A	N/A	N/A
9002-84-0	N/A	N/A	N/A
9004-32-4	N/A	N/A	N/A
9003-07-0	N/A	N/A	N/A
9003-55-8	N/A	N/A	N/A
21041-93-0	TLV-TWA 0.02mg/m ³	N/A	N/A
20427-58-1	N/A	N/A	N/A
7732-18-5	N/A	N/A	N/A

8.2 接触控制 Exposure controls:

根据第三部分所列的成份信息，建议在职业接触控制方面采用以下安全措施。

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

适当的技术控制 Appropriate engineering control:

远离食品、饮料和饲料。Keep away from foodstuffs, beverages and feed.

立即除去所有的不洁的和被污染的衣服。Immediately remove all soiled and contaminated clothing.

在休息之前和工作完毕后请清洗双手。Wash hands before breaks and at the end of work.

分开储存保护性衣服。Store protective clothing separately.

避免和眼睛接触。Avoid contact with the eyes.

避免和皮肤接触。Avoid contact with the skin.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

有关技术设施设计的资料请参阅第七部分。

See Section 7 for information about design of technical facilities.

个人防护设备 Personal protective equipment:

呼吸系统防护 Respiratory protection:

如果曾短暂接触或在低污染的情况下，请使用呼吸过滤装置。如果曾深入或较长时间接触，请使用独立的呼吸保护装置。

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

手部防护 Protection of hands:

佩戴合适的防护手套以减少皮肤接触。Wear appropriate Protective gloves to reduce skin contact. 手套的物料必须是不渗透性的，且能抵抗该产品/物质/添加剂。

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

基于缺乏测试，对于产品/制剂/化学混合物，并不会提供手套材料的建议。

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

选择手套材料时，请注意材料的渗透时间，渗透率和降解参数。

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

手套材料 Material of gloves

选择合适的手套不单取决于材料，亦取决于质量特征，以及来自哪一间生产厂家。因为该产品是由很多材料配制而成，手套材料的抵抗力并不可预计，所以，必须在使用之前进行检查。

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

渗入手套材料的时间 Penetration time of glove material:

请向劳保手套生产厂家获取准确的破裂时间并观察实际的破裂时间。The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

眼睛防护 Eye Protection:

佩戴安全护目镜或眼睛防护结合呼吸防护。Wear safety goggles or eye protection combined with respiratory protection.

皮肤和身体防护 Skin and Body Protection:

工作环境需要时，穿着合适的防护服以减少皮肤接触。防护设备的类型必须根据特定工作场所中的危险物的浓度和含量来选择。

Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

环境接触控制 Environmental exposure controls:

控制措施必须符合环境保护法规。Control measures must be made in accordance with Community environmental protection legislation.

第九部分 理化特性

Section 9 - Physical and Chemical Properties

9.1 有关基本物理及化学特性的信息 Information on basic physical and chemical properties

·外观 Appearance:	
性状 Form:	固体 Solid
颜色 Color:	银色 Silver
·气味 Odor:	无气味 Odorless
·气味阈值 Odor threshold:	无相关详细资料 Not available
·pH 值 pH-value:	无相关详细资料 Not available
·变化条件 Change in condition	
熔点/凝固点 Melting point/Freezing point:	无相关详细资料 Not available
沸点 Initial boiling point and boiling range:	无相关详细资料 Not available
·闪点 Flash point:	无相关详细资料 Not available
·易燃性 (固体、气体) Flammability(solid, gas):	无相关详细资料 Not available
·自燃温度 Auto-ignition temperature:	无相关详细资料 Not available
·分解温度 Decomposition temperature	无相关详细资料 Not available
·自燃性 Self-igniting:	无相关详细资料 Not available
·爆炸的危险性 Explosive properties:	无相关详细资料 Not available
·爆炸限值 Explosion limits:	
下限 Lower:	无相关详细资料 Not available
上限 Upper:	无相关详细资料 Not available
·氧化性质 Oxidizing properties	无相关详细资料 Not available
·蒸气压 Vapor pressure:	无相关详细资料 Not available
·密度 Density:	无相关详细资料 Not available
·相对密度 Relative density:	无相关详细资料 Not available
·蒸气密度 Vapor density:	无相关详细资料 Not available
·蒸发速率 Evaporation rate:	无相关详细资料 Not available
·溶解性/溶混性 Solubility in / Miscibility with	
水 Water:	无相关详细资料 Not available
·n-辛醇 / 水分配系数 Partition coefficient	无相关详细资料 Not available
n-octanol/water:	
·黏度 Viscosity:	
动力黏度 Dynamic:	无相关详细资料 Not available
运动黏度 Kinematic:	无相关详细资料 Not available

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

9.2 其他信息 Other information: 无相关详细资料 Not available

第十部分 稳定性和反应活性

Section 10 - Stability and Reactivity

- 10.1 反应性 Reactivity: Data not available.
- 10.2 化学稳定性 Chemical stability: Stable.
- 10.3 危险反应可能性 Possibility of hazardous reactions:
未有已知的危险反应 No dangerous reactions known.
- 10.4 应避免的条件 Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.
- 10.5 不相容的物质 Incompatibilities materials: Oxidizing agents, acid, base.
- 10.6 危险的分解产物 Hazardous decomposition products: Carbon monoxide, carbon dioxide, alkaline fumes, metal oxide fumes.

第十一部分 毒理学资料

Section 11 - Toxicological Information

11.1 毒性学影响的信息

急性毒理 Acute toxicity:

Harmful if swallowed.

CAS No.	LC50/LD50
12054-48-7	Oral (rat) LD50: 1500mg/kg; Oral (Rat) LD50: 1515mg/kg; Inhalation (Rat) LC50: 1200mg/m ³ /4h
7439-89-6	Oral (rat) LD50: 98600mg/kg
7440-02-0	Intravenous (dog) LD50: 40mg/kg
7439-96-5	Oral (rat) LD50: 9000mg/kg
7439-91-0	Not available.
7440-48-4	Oral (rat) LD50: 6170mg/kg
1310-58-3	Oral (rat) LD50: 273mg/kg
9002-88-4	Inhalation (mouse) LC50: 12000mg/m ³ /30m Oral (rat) LD50: >3000mg/kg
7440-45-1	Not available.
7440-00-8	Not available.
7429-90-5	Not available.
1310-73-2	ot available.
1310-65-2	Not available.
9002-84-0	Oral (mouse) LD50: 5000mg/kg
9004-32-4	Not available.
9003-07-0	Oral (mouse) LD50: 3200mg/kg
9003-55-8	Not available.
21041-93-0	Not available.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

20427-58-1	Not available.
7732-18-5	Not available.

皮肤刺激/腐蚀: 无可用数据。

Skin irritation or corrosion: No further relevant information available.

眼睛刺激/腐蚀: 无可用数据。

Eye damage or irritation: No further relevant information available.

呼吸或皮肤过敏: 无可用数据。

Respiratory or skin sensitization: No further relevant information available.

生殖细胞突变性: 无可用数据。

Reproductive Cell Mutagenicity: No further relevant information available.

致癌性: 无可用数据。

Carcinogenicity: No further relevant information available.

生殖毒性: 无可用数据。

Reproductive toxicity: No further relevant information available.

特异性靶器官系统毒性: 一次性接触: 无可用数据。

Specific target organ toxicity-Single exposure: No further relevant information available.

特异性靶器官系统毒性: 反复接触: 无可用数据。

Specific target organ toxicity-Repeated exposure: No further relevant information available.

吸入危害: 无可用数据。

Aspiration hazard: No further relevant information available.

潜在的有害效应: 无可用数据。

Potential Health Effects: No further relevant information available.

第十二部分 生态学资料

Section 12 - Ecological Information

12.1 生态毒性 Toxicity:

水生毒性 Aquatic toxicity: 无相关详细资料。 No further relevant information available.

12.2 持久性和降解性 Persistence and degradability: 无相关详细资料。 No further relevant information available.

12.3 潜在的生物累积性 Bio-accumulative Potential: 无相关详细资料。 No further relevant information available.

12.4 土壤内移动性 Mobility in Soil: 无相关详细资料。 No further relevant information available.

12.5 PBT (残留性、生物浓缩性、毒性物质) 及 vPvB (高残留性、高生物浓缩性物质) 评价结果 Results of PBT and vPvB assessment

PBT (残留性、生物浓缩性、毒性物质): Not applicable.

vPvB (高残留性、高生物浓缩性物质): Not applicable.

12.6 其他有害效应 Other adverse effects: 无相关详细资料。

No further relevant information available.

12.7 额外的生态学资料 Additional ecological information:

总括注解 General notes:

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

水危害级别 3 (德国规例) (通过名单进行自我评估) Water hazard class 3 (German Regulation) (Self-assessment): 对水是极其危害的。Extremely hazardous for water.

即使是小量, 不要让该产品接触地下水、水道或污水系统。

Do not allow product to reach ground water, water course of sewage system, even in small quantities.

不要让未被稀释或未被中和的产品接触下水道或排水沟渠。

Must not reach sewage water or drainage ditch undiluted or unneutralized.

即使是极其小量的产品渗入地下也会对饮用水造成危险。

Danger to drinking water if even extremely small quantities leak into the ground.

对水体中的鱼和浮游生物也有毒害。

Also poisonous for fish and plankton in water bodies.

对水中的有机物有毒。

Toxic for aquatic organisms.

第十三部分 废弃处置

Section 13 - Disposal Considerations

13.1 废弃处置方法 Waste treatment methods:

建议 Recommendation:

不能将该产品和家居垃圾一起丢弃。不要让该产品接触污水系统。

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装 Uncleaned packaging:

建议 Recommendation:

必须根据官方的规章来丢弃。避免处置过程污染到环境 Disposal must be made according to official regulations. Avoid polluting environment during the disposal process.

建议的清洗剂 Recommended cleansing agents: 如有必要请使用水及清洁剂进行清洁。Water, if necessary together with cleansing agents.

第十四部分 运输信息

Section 14 - Transport Information

14.1 联合国危险货物编号 UN Number: ADR/RID/AND, IATA: IMDG:	不适用 Not applicable UN3496
14.2 UN 适当装船名 UN Proper shipping name: ADR/RID/AND, IATA, IMDG:	不适用 Not applicable Batteries nickel-metal hydride

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

14.3 运输危险等级 Transport hazard class(es): ADR/RID/AND, IATA, 级别 Class 标签 Label	不适用 Not applicable -
IMDG: 级别 Class 标签 Label	9 杂项危险物质和物品, 包括危害环境物质 Miscellaneous dangerous substances and articles 9
IATA: 级别 Class 标签 Label	不适用 Not applicable -
14.4 包装组别 Packing group: ADR/RID/AND, DOT, IMDG, IATA,	不适用 Not applicable
14.5 环境危害 Environmental hazards:	不适用 Not applicable
14.6 用户特别预防措施 Special precautions for user: 危险编码 Hazard identification number (Kemler code): EMS 号码 EMS Number: Stowage Category: Stowage Code:	不适用 Not applicable - F-A, S-I A SW1 Protected from sources of heat.
14.7 MARPOL 73/78 (针对船舶引起的海洋污染预防协议) 附件书 2 及根据 IBC Code (国际装船货物编码) 的大量运送。 Transport in bulk according to Annex II of MARPOL and the IBC Code.	不适用 Not applicable

14.8 运输/额外的资料 Transport/Additional information:

镍金属氢化物电池不作为危险材料或危险货品运输。参照 ICAO 国际民用航空组织, IATA (64th) 国际航空运输协会, IATA 特殊规定 A199, IMDG 《国际海运危险货物规则》(40-20), IMDG 特殊规定 963, 和《联合国关于危险品运输建议书规章范本》(22nd) 执行。

Nickel Metal Hydride Battery is exempt from dangerous goods. It is considered non-dangerous goods by the International Civil Aviation Organization (ICAO), International Maritime Dangerous Goods Regulations (IMDG) (40-20), IMDG Special Provisions 963, or the "Recommendations on the transport Of Dangerous Goods-Model Regulations" (22nd).

S. P. A199 UN 编号为 UN 3496 的条目仅适用于海上运输。具有潜在放热危险性的镍氢电池或镍氢电池驱动的装置、设备或者交通工具不受本规则的限制, 这些规则是为运输做准备, 所以要尽量避免:

S. P. A199 The UN number UN 3496 is only applicable in sea transport. Nickel-metal hydride batteries of nickel-metal hydride battery-powered devices, equipment or vehicles having the potential of a dangerous evolution of heat are not subject to these Regulations provided they

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

are prepared for transport so as to prevent:

(a) 短路（例如，在使用电池的情况下，通过显示终端的有效绝缘；或者，在使用设备的情况下，通过显示终端的有效绝缘；或者，在使用设备的情况下，通过电池的断开和保护显示终端）；

(a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminal; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals);

(b) 意外启动。

(b) unintentional activation.

根据特殊规定 A199，可按非限制性货物条件办理。

The substance is not subject to IATA DGR according to special provision A199.

当填制航空货运单时，“不受限制”字样和特殊规定编号必须包含在按 8.2.6 的要求的航空货运单中物质的描述中。

The words “Not Restricted” and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

电池相互隔开并防止短路、泄露，关装在结实的容器内运输。

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

备注：单个货物运输组件中的总重量小于 100 公斤。（海运）

Note: Products weighing less than 100kg in the Container (By sea).

运输方式：空运，海运，铁路，公路。

Transport Fashion: By air, by sea.

第十五部分 法规信息

Section 15 - Regulatory Information

15.1 针对该物质或混合物的安全、健康和环境法规/法规

Safety, health and environmental regulations/ legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ ELINCS/ NLP
12054-48-7	Listed	Listed	Listed DSL	Listed
7439-89-6	Listed	Listed	Listed DSL	Listed
7440-02-0	Listed	Listed	Listed DSL	Listed
7439-96-5	Listed	Listed	Listed DSL	Listed
7439-91-0	Listed	Listed	Listed DSL	Listed
7440-48-4	Listed	Listed	Listed DSL	Listed
1310-58-3	Listed	Listed	Listed DSL	Listed

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

9002-88-4	Listed	Listed	Listed DSL	Listed
7440-45-1	Listed	Listed	Listed DSL	Listed
7440-00-8	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed
1310-73-2	Listed	Listed	Listed DSL	Listed
1310-65-2	Listed	Listed	Listed DSL	Listed
9002-84-0	Listed	Listed	Listed DSL	Listed
9004-32-4	Listed	Listed	Listed DSL	Listed
9003-07-0	Listed	Listed	Listed DSL	Listed
9003-55-8	Listed	Listed	Listed DSL	Listed
21041-93-0	Listed	Listed	Listed DSL	Listed
20427-58-1	Listed	Listed	Listed DSL	Listed
7732-18-5	Listed	Listed	Listed DSL	Listed

欧盟指令 2012/18/EU Directive 2012/18/EU

附录一危险物质 这些成份都不列在名单上面。

Named dangerous substance - ANNEX I None of the ingredients is listed.

七项对水生环境有害的 E2 类

Seveso category E2 Hazardous to the Aquatic Environment

适用于上层要求 200 吨的合格数量(吨)

Qualifying quantity (tonnes) for the application of lower-tier requirements 200t

适用于上层要求 500 吨的合格数量(吨)

Qualifying quantity (tonnes) for the application of upper-tier requirements 500t

指令 2011/65/EU: 限制在电气和电子设备中使用某些有害物质-附件 II

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

没有列出成份。None of the ingredients is listed.

国家的规章 National regulations:

有关使用限制的资料 Information about limitation of use:

禁止员工接触在配制中含有致癌的物料。在某些情况中由当局作出例外的决定。

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

水危险级别: 水危险级别 3 (通过名单进行自我评估): 对水是极其危险的

Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

其他法规, 限制和禁止法规 Other regulations, limitations and prohibitive regulations

REACH 法规附录十四中供授权审议的高关注物质候选清单 (8/7/2021)

SVHC Candidate List of REACH Regulation Annex XIV Authorisation (8/7/2021)

没有列出成份 None of the ingredients is listed.

欧盟法规 REACH 附录十七限制物质 (25/1/2021)

REACH Regulation Annex XVII Restriction (25/1/2021)

有关使用限制的资料请参阅第 16 部分。

See Section 16 for information about restriction of us.

没有列出成份 None of the ingredients is listed.

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

欧盟法规 REACH 附录十四授权物质 (6/2/2020)
REACH Regulation Annex XIV Authorisation List (6/2/2020)

没有列出成份 None of the ingredients is listed.

15.2 化学物质安全性评价：尚未进行化学物质安全性评价

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

第十六部分 其他信息

Section 16 - Other Information

相关危险说明 Relevant hazard statements:

H228	易燃固体 Flammable solid.
H302	吞咽有害 Harmful if swallowed
H314	造成严重皮肤灼伤和眼损伤 Causes severe skin burns and eye damage
H315	造成皮肤刺激 Causes skin irritation
H317	可能导致皮肤过敏反应 May cause an allergic skin reaction
H318	造成严重眼损伤 Causes serious eye damage
H319	造成严重眼刺激 Causes serious eye irritation
H332	吸入有害 Harmful if inhaled
H334	吸入可能导致过敏或哮喘病症状或呼吸困难 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	怀疑会导致遗传性缺陷 Suspected of causing genetic defects
H350	可能致癌 May cause cancer
H350i	吸入可致癌 May cause cancer by inhalation
H351	怀疑会致癌 Suspected of causing cancer
H360D	可能损害胎儿 May damage the unborn child
H360F	可能会损害生育能力 May damage fertility
H372	长期或反复接触会对呼吸体系造成伤害。露出途径：吸口气/吸入。 Cause damage to organs through prolonged or repeated exposure
H400	对水生生物毒性极大 Very toxic to aquatic life
H410	对水生生物毒性极大并具有长期持续影响 Very toxic to aquatic life with long lasting effects
H411	对水生生物有毒并具有长期持续影响 Toxic to aquatic life with long lasting effects
H413	可能对水生生物造成长期持续有害影响 May cause long lasting harmful effects to aquatic life

根据欧盟法规 (EC) No. 1272/2008 进行分类

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

急性毒性-经口 Acute toxicity - oral
皮肤腐蚀/刺激 Skin corrosion/irritation
严重眼损伤/眼刺激

混合物的分类是以物质的数据按欧盟法规 (EC) No. 1272/2008 的计算方法进行。
The classification of the mixture is

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

<p>Serious eye damage/eye irritation 呼吸过敏 Respiratory sensitization 皮肤过 Skin sensitization 生殖细胞致突变性 Germ cell mutagenicity 致癌性 Carcinogenicity 生殖毒性 Reproductive toxicity 特异性靶器官毒性-反复接触 Specific target organ toxicity(repeated exposure) 危害水生环境-长期危险 Hazardous to the aquatic environment - long-term(chronic)aquatic hazard</p>	<p>generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008.</p>
<p>免责声明 DISCLAIMER OF LIABILITY:</p>	
<p>本化学品安全技术说明书的资料是依据我们相信可靠的来源中获得。但是，我们对所提从的数据并没有明示或隐含的保证。此产品的处理、储存、使用或弃置状况和方法是我们无法控制和可能超越我们的知识范围。在任何情况下，我们均不会承担因不当处理、储存、使用或弃置此化学品时所造成的损失、损害或相关费用。本化学品安全技术说明书是按此产品编造及只能应用于此产品。此产品被使用为另一产品组件，此化学品安全技术说明书并不适用。</p> <p>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.</p>	
<p>缩略语和首字母缩写</p>	
<p>Abbreviations and acronyms:</p>	
<p>GHS:</p>	<p>Globally Harmonized System of Classification Labeling of Chemicals. 全球化学品统一分类标签制度。</p>
<p>CAS:</p>	<p>Chemical Abstracts Service registration number. 化学文摘服务注册号。</p>
<p>EC:</p>	<p>European Commission 欧洲委员会</p>
<p>ACGIH:</p>	<p>American Conference of Governmental Industrial Hygienists 美国政府工业卫生学家会议</p>
<p>NIOSH:</p>	<p>US National Institute for Occupational Safety and Health 美国国家职业安全与健康研究所</p>
<p>OSHA:</p>	<p>US Occupational Safety and Health 美国职业安全与健康</p>
<p>TLV:</p>	<p>Threshold Limit Value 阈限值</p>
<p>TWA:</p>	<p>Time Weighted Average 时间加权平均</p>
<p>STEL:</p>	<p>Short Term Exposure Limit 短期接触极限</p>

化学品安全技术说明书

Material Safety Data Sheet

日期 Date: 2023-1-1

PEL:	Permissible Exposure Level 允许的暴露水平
REL:	Recommended Exposure Limit 推荐接触限值
PC-STEL:	Permissible Concentration-Short Time Exposure Limit 短时间接触容许浓度
PC-TWA:	Permissible Concentration- Time Weighted Average 时间加权平均容许浓度
LC50:	Lethal Concentration, 50 percent kill 半数致死浓度
LD50:	Lethal Dose, 50 percent kill 半数致死剂量
IARC:	International Agency for Research on Cancer 国际癌症研究中心
EC50:	Median Effective Concentration 半数效应浓度
BCF:	Bio-concentration Factor 生物浓缩因子
BOD:	Bio-chemical Oxygen Demand 生化需氧量
NOEC:	No Observed Effect Concentration 无可观察效应浓度
NTP:	US National Toxicology Program 美国国家毒理学项目
RTECS:	Registry of Toxic Effects of Chemical Substances 化学物质毒性作用登记
ITAT	International Air Transport Association 国际空运联合会
IMDG:	International Maritime Dangerous Goods 国际海运危险货物
TSCA:	Toxic Substances Control Act, 美国有毒物质控制法
IECSC:	Inventory of existing chemical substances in China 中国现有化学品名录
DSL:	Domestic Substances List, The American chemical inventory. 国内物质清单, 美国化学品清单。
NDSL:	The Non-domestic Substances List of Canada 加拿大的非本地物质清单
EINECS:	European Inventory of Existing Commercial Chemical Substances. 现有商业化学物质的欧洲库存。

…报告结束…

… End of document …