

Safety Data Sheet

Model No.: Nickel-Cadmium Battery

Document Number: GLB/ZY-CDTS160301

IDENTITY 标识

(As Used on Label and List) (标签上所记录的)

NICD Rechargeable Battery

Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that. 如果有任何不能适用的情况, 必须标记出来, 而不允许留下空白。

Section I - Chemical Product and Company Identification

第一部分: 化学产品和公司的标识

Chemical product identification 化学产品标识

Product identification : Nickel-Cadmium Battery

产品标识 : 镍镉电池

Recommended Uses : Used as DC Power of Personal care, Vacuum cleaner, Lighting, Electrical tool , Digital products and so on.

推荐使用: 作为个人护理的直流电源,使用真空吸尘器、照明、电器工具,数码产品等等。

Company identification 公司识别

Manufacturers : Chenzhou Grand-Pro Tech Co.,Ltd

制造商 : 郴州格兰博科技股份有限公司

Address : Intersection of Shihu Ave.and Linjing 2nd Rd.Su Xian District Chenzhou Hunan,China.

地址: 中国湖南省郴州市苏仙区白露塘镇石虎大道与林经二路交汇处

Report No. 报告号: GLB/ZY-CDTS160301

Revision 版本 : 1.0

Post code : 42300

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Section II - Hazards identification

第二部分: 危害识别

Emergency overview 紧急情况概述: N/A

Label elements 标签元素

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Hazard pictogram(s) 危害象形图:	
Signal word 信号词:	Not available 不适用
Hazard statement(s) 风险声明:	Not available 不适用
Precautionary statement(s)	
Prevention 预防:	Not available 不适用
Response 回应:	Not available 不适用
Disposal 处理:	Not available 不适用

Containing heavy metal cadmium nickel cadmium battery, has harm to the environment and the people, the battery itself is not environmental protection.

镍镉电池含重金属镉, 对环境及人有危害, 电池本身并不环保。

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

在事故或紧急情况概述:如果你感觉不适,立即就医。有关更多信息,请参见第4节。

Important symptoms: See Section 11 for more information.

重要的症状:更多信息参见11节。

Section III - Composition/information on ingredients

第三部分: 成分信息

Material	CAS Number	%
NI	14332-32-2	23.80%
Cd	7440-43-9	26.09%
Fe	7439-89-6	20.50%
Na	7440-23-5	2.60%
Li	7439-93-2	1.23%
H2O	7732-18-5	18.09%
Co	7440-48-4	1.50%
Other	NA	6.20%

Section IV - First Aid Measures

第四部分: 急救措施

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General information: No special measures required 一般信息:不需要特殊的措施。

First Aid Procedures 急救程序

If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.
一旦电解质泄露并接触到皮肤, 立即用大量的水冲洗

If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician. 如果电解质进入眼睛, 用大量的水冲洗 15 分钟后就医

If electrolytes vapors are inhaled, provide fresh air and seek the attention if respiratory irritation develops. Ventilate the contaminated area.
如果吸入电解质气体, 提供新鲜的空气, 如果呼吸急促需要寻求帮助

Notes to the doctor: Treat symptomatically. 医生指导: 对症治疗。

Personal protective equipment for first-aid responders:No further relevant information available.
急救人员的个人防护设备: 没有进一步的相关信息。

Indication of immediate medical attention and special treatment needed:No further relevant information available. 需要立即就医和特殊处理的指示: 没有进一步的相关信息。

Section V - Fire fighting measures

第五部分: 消防措施

Flammability 可燃性:	Not available 不适用
Extinguishing agent 灭火剂:	Suitable 合适的

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

万一着火, 对起火电池以及包装材料采取任何灭火措施都是允许的。接近火源请保持电池表面温度较低防止开裂。灭火者必须自带设备齐全的呼吸器械。

Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO2. 使用适合当地条件和周围环境的灭火剂。如干粉、二氧化碳。

Protective equipment: wear self-contained respirator. Wear fully protective impervious suit.
防护设备:戴自给式呼吸器,穿完全不透水防护服。

Section VI - Accidental release measures

第六部分: 意外释放的措施

Steps to be Taken in case Material is Released or Spilled 一旦材料释放或溢出应采取的措施

Emergency procedures:Remove ignition sources, evacuate area. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container.

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应急程序:处理点火来源,疏散区域。收集尽可能多的溢出的材料,把溢出的材料到合适的处理容器。

Batteries that are leakage should be handled with rubber gloves. 漏液的电池应该使用橡胶手套拿

Avoid direct contact with electrolyte. 避免直接接触电解质

Personal precautions:Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA). 个人预防措施:穿具有保护性的衣服, 携带压力式紧急呼吸器

Environmental precautions:Without government permission are not allowed to substances released into the environment. 环境预防措施:没有政府的许可不允许物质释放到环境。

Methods and materials for containment and cleaning up:All waste must refer to the United Nations, the national and local regulations for disposal. See Section 7 for information on safe handling.
控制和清理的方法和材料:所有废物必须引用联合国、国家和地方规定处理。见第七节信息安全处理。

Section VII - Handling and Storage

第七部分: 储藏和处理

Conditions for safe storage:Requirements to be met by storerooms and receptacles.
安全储存条件: 要求库房和容器。

Batteries should be handled and stored carefully to avoid short circuits.
电池必须小心储藏和处理以避免短路

Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries.
不要以混乱的方式储藏, 或者让金属物和储藏的电池混在一起。

Never disassemble a battery. 不要分解电池

Do not breathe call vapors or touch internal material with bare hands.
不要用手直接接触内部原料或吸入蒸汽

Keep batteries between -30 C and 45 C for prolong storage.
在-30 C 至 45 C 之间保存电池以延长电池的储藏期

Store in a cool, dry, well-ventilated place. Keep away from heat, Sparks, Open flames, hot surfaces, avoiding the sunlight. 储存在阴凉,干燥,通风的地方,远离高温、火花、明火、热表面, 避免了阳光。

If disassembled, crushed or exposed to fire or high temperatures,Batteries may explode or cause burns. 如果拆卸,压碎或暴露于火或高温,电池可能会爆炸或引起燃烧。

Section VIII - Exposure Controls / Person Protection

第八部分: 暴露控制和人身保护

Occupational Exposure Limits: 职业的保护限制 LTEP	N.A.	STEP 步骤	N.A.
Respiratory Protection (Specify Type) : 呼吸保护 (指定类型)	N.A.		

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Ventilation 通风	Local Exhausts 局部排气	N.A.	Special 特别的	N.A.
	Mechanical (General) 机械的(普通)	N.A.	Other 其他	N.A.
Protective Gloves 保护手套		N.A.	Eye Protection 眼睛防护	N.A.
Work/Hygienic Practices 工作/卫生习惯				N.A.

Do not dispose of battery in fire – may explode. 不要把电池扔火里处置——可能爆炸

Do not short circuit battery – may cause burns. 不要使电池短路

Personal Protective Equipment 个人防护设备

Respiratory protection: Wear suitable protective mask in order to reduce the respiratory system. A large number of leakage, wear chemical protective clothing, including self-contained breathing apparatus. 呼吸防护:穿合适的防护面具以减少呼吸系统,大量泄漏,穿化学防护服,包括自给式呼吸器。

Eyes Protection: Wear safety goggles or eye protection combined with respiratory protection. 眼睛防护:戴防护眼镜或保护眼睛结合呼吸保护。

Skin and Body Protection: Wear working clothing and apron. 皮肤及身体防护:穿工作衣服和围裙。

Hand Protection: Wear appropriate protective gloves to reduce skin contact. 手防护:穿适当的防护手套,以减少皮肤接触。

Section IX - Physical/Chemical Characteristics

第九部分 物理\化学特性

Information on basic physical and chemical properties 基本的物理和化学性质的信息

Boiling Point 沸点	N.A.	Specific Gravity (H2O=1) 重力	N.A.
Vapor Pressure (mm Hg) 蒸汽压	N.A.	Melting Point 熔点	N.A.
Vapor Density (AIR=1) 蒸汽密度	N.A.	Evaporation Rate 蒸发比例 (Butyl Acetate=1) 一丁基醋酸盐	N.A.
Solubility in Water 水中 溶解度	N.A.	pH 值	N.A.
Decomposition temperatur 分解温度	N.A.	Danger of explosion 爆炸的危险	N.A.
Self-igniting 自燃	N.A.	Freezing point 冰点	N.A.
Flash point 闪点	N.A.	Density 密度	N.A.

Appearance and Odor: 外观和气味 : Cylindrical Shape. odorless 圆柱形, 无嗅的

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Section X - Stability and reactivity

第十部分：稳定性和反应性

Stability 稳定性	Unstable 不稳定的		Reactivity: Data not available.
	Stable 稳定	√	反应性:数据不可用。

Incompatibility (Materials to Avoid) 不相容:

Hazardous Polymerization 危险聚合	May Occur 可能出现的情况		Possibility of hazardous reactions: Data not available.
	Will Not Occur 不会出现的情况	√	危险反应的可能性:数据不可用。

Hazardous decomposition products:cadmium. 危险分解产品: 镉。

Section XI - Toxicological information

第十一部分：毒理学资料

Route(s) of Entry 入侵途径	Inhalation 吸入	Skin 皮肤	Ingestion 摄取
	N.A.	N.A.	N.A.

Health Hazard (Acute and Chronic) 健康受损（急性，慢性） / Toxicological information 毒物学信息

In ease of electrolyte leakage, skin will be itchy when contaminated with electrolyte.

电解液缓慢泄露，当皮肤接触到会发痒

In contact with electrolyte can cause severe irritation and chemical urns.

接触电解质会导致剧烈的灼热感

Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

吸入电解质气体可能引起肺部和上呼吸道的呼吸急促

Section XII - Ecological Information

第十二部分：生态学信息

N.A. 无

Section XIII - Disposal Method

第十三部分：处理方法

Dispose of batteries according to government regulations 根据政府部门的相关规定处理电池

packaging: Disposal must be made according to official regulations. Avoid polluting environment during the disposal process. 包装:处理必须根据官方规定。在处理过程中避免污染环境。

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Section XIV - Transportation Information

第十四部分：运输信息

Ni-CD Battery is exempt from dangerous goods. GRAND-PRO batteries are considered to be "Dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA and DGR 58TH Edition 2017) and International Maritime Dangerous Goods Regulations (IMDG). The only DOT requirement for shipping these batteries is special provision A123 which states: "Batteries, dry are not subject to the requirement of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). 镍镉电池是免除危险货物。格兰博电池被认为是干电池，根据运输目的由美国运输局(DOT)，国际民航管理局(ICAO)，国际空运协会(IATA)和(IMDG)。运送这些电池唯一所需要的 DOT 是特殊规定 A123，声明：只有当提供的干电池在运输时能避免由于发热而带来的危险时（例如：裸露的接线端被有效的绝缘）才可以不遵循于此规章。

Section XV - Regulatory Information

第十五部分：调整信息

Special requirement be according to the local regulations. 特殊需求根据当地规则调整

Section XVI - Other Information

第十六部分：其他信息

Revision Date 修订日期: 2017-1-1

Revision Note 修改说明: No information available 没有可用的信息

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The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

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