

报告编号(Report ID): MTILPMDG7663017U3

2026 年 1 月 1 日生效

化学品安全技术说明书 MSDS

样品名称及型号

碱性锌锰电池 LR6 AA

Sample Name & Model

Alkaline battery LR6 AA

委托单位

金霸王（中国）有限公司

Applicant

DURACELL (CHINA) LIMITED

单位地址

东莞市南城区宏图高新技术开发区

Address

HONGTU HIGH & NEW TECHNOLOGY DEVELOPMENT
ZONE NAN CHENG DISTRICT, DONGGUAN

PONY 谱尼测试
Pony Testing International Group
www.ponytest.com



No.: MTILPMDG7663017U3
Code: swy54kpag

声 明 Statement

1. 本报告无检验检测专用章、报告骑缝章和批准人签章无效。
This report is invalid without special seal for inspection and test, cross-page seal and signature of the approver.
2. 本报告页面所使用“PONY”、“谱尼”字样为谱尼测试集团的注册商标,其受《中华人民共和国商标法》保护,任何未经本单位授权的擅自使用和仿冒、伪造、变造“PONY”、“谱尼”商标均为违法侵权行为,本单位将依法追究其法律责任。
The words "PONY" and "谱尼" used in this report page are the registered trademarks of Pony Testing International Group, which are protected by the Trademark Law of the People's Republic of China. Any unauthorized use, counterfeiting, forging or altering of the trademarks of "PONY" and "谱尼" without the authorization of the company is an illegal infringement, and the company will investigate their legal liabilities according to law.
3. 委托单位对报告数据如有异议,请于报告完成之日起十五日内向本单位书面提出复测申请,同时附上报告原件并预付复测费。
If the applicant has any objection to the report data, please submit a written application for retesting to PONY within 15 days after the completion of the report, with the original report attached and the retesting fee prepaid.
4. 不可重复性或不能进行复测的实验,不进行复测,委托单位放弃异议权利。
If the experiment cannot be repeated or cannot be retested, no retest shall be conducted, and the applicant shall waive the right of objection.
5. 委托单位必须保证送至本公司的样品及资料与真实的出运货物相一致,如有不符,所涉及的法律及其他后果均由委托单位自行承担。
The client must guarantee that samples and documents provided for appraisal are consistent with the goods to be transported. Otherwise, the client shall bear all legal responsibilities and other consequences due to it.
6. 本报告仅对所测样品的检测结果负责,检测结果及其相关判定结论仅反映对所测样品的评价或只代表检测时污染物的排放状况。对于报告及所载内容不能进行商业广告宣传使用,使用所产生的直接或间接损失及一切法律后果,本单位不承担任何经济和法律后果。
This report is only responsible for the test results of the tested samples. The test results and relevant conclusions reflect the evaluation of the tested samples or only represent the emission status of pollutants during the test. The report and the contents contained in it cannot be used for commercial advertising, and PONY does not assume any economic and legal liabilities for direct or indirect losses and all legal consequences arising from the use.
7. 本单位有权在完成报告后按规定方式处理所测样品,除客户特别声明并支付样品管理费,所有超过标准规定时效期的样品均不再做留样。
PONY has the right to dispose the tested sample after approval of the test report. Unless the applicant specifically declares and pays the sample management fee, all samples beyond the validity period specified in the standard will not be retained.
8. 本单位保证工作的客观公正性,对委托单位的商业信息、技术文件等商业秘密履行保密义务。
PONY assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information, and technique document.
9. 本报告私自转让、盗用、冒用、涂改、未经本单位批准的复制(全文复制除外)或以其它任何形式的篡改均属无效,本单位将对上述行为追究其相应的法律责任。
Any unauthorized transfer, appropriation, falsification, alteration, copying (except full text copying) or alteration in any other form of this report without the approval of PONY shall be invalid. PONY shall strictly investigate the corresponding legal liability for the aforesaid behavior.
10. 本报告不考虑国家及经营人差异。
The certificate/report takes no account of the differences of countries and applicants.

▲ 防伪说明(Anti-counterfeiting Instructions):

1. 报告编号是唯一的。
The report number is unique.
2. 扫描报告首页下方二维码,即可查询报告真伪。
Scan the QR code below the first page to check the authenticity of the report.
3. 报告采用特制防伪纸张印制,纸张表面带有“PONY”防伪纹路,该防伪纹路不支持复印,即复制件不会带有“PONY”防伪纹路。
The report is printed on specially made anti-counterfeit paper with the "PONY" anti-counterfeit pattern on the surface of the paper. This anti-counterfeit pattern does not support copying, meaning that the copied product will not have the "PONY" anti-counterfeit pattern.
4. 报告采用的防伪纸张内部亦加带有高科技“PONY”防伪水印,只有在验钞机等紫外线照射下方可显出无色荧光防伪字样。
The anti-counterfeit paper used in the report also has a high-tech "PONY" anti-counterfeit watermark added inside, and the colorless fluorescent anti-counterfeit words can only be displayed under UV irradiation such as in the cash detector.

化学品安全技术说明书 Material Safety Data Sheet

GB/T16483-2008 & GB/T17519-2013 & GB 30000.2-29-2013

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

样品名称 **Sample Name:** 碱性锌锰电池 Alkaline battery

样品型号 **Sample Model:** LR6 AA

推荐用途 **Recommended Uses:** 无资料 N/A

限制用途 **Restrictions on Use:** 无资料 N/A

供应商信息 Supplier Information

企业名称 **Company Name:** 金霸王 (中国) 有限公司 DURACELL (CHINA) LIMITED

地址 **Address:** 东莞市南城区宏图高新技术开发区 HONGTU HIGH & NEW TECHNOLOGY
DEVELOPMENT ZONE NAN CHENG DISTRICT, DONGGUAN

邮政编码 **Postal Code:** 523080

电话号码 **Phone Number:** 15015453879

应急电话 **Emergency Phone Number:** 15015453879

传真 **FAX:** /

电子邮件地址 **E-mail:** wang.li.21@duracell.com

第二部分 危险性概述

Section 2 - Hazards Identification

紧急情况概述 Emergency overview: 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。如果破裂, 存在以下危害。

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.

GHS 危险性类别 Classification according to GHS:

急性毒性, 经口 Acute toxicity, oral (4)

皮肤腐蚀/刺激 Skin corrosion/irritation (2)

严重眼损伤/眼刺激 Serious eye damage/eye irritation (2A)

特异性靶器官毒性, 一次接触; 呼吸道刺激 Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

对水生环境的危害, 长期危害 Hazardous to the aquatic environment, long-term hazard (2)

GHS 标记要素 GHS Label elements:

危害类型象形图

Hazard pictogram(s):



信号词 **Signal word:** 警告 Warning

危险性说明 **Hazard statement(s):**

H302 吞咽有害 Harmful if swallowed

H315 造成皮肤刺激 Causes skin irritation

H319 造成严重眼刺激 Causes serious eye irritation

H335 可能引起呼吸道刺激 May cause respiratory irritation

H411 可能对水生生物造成长期持续有害影响 Toxic to aquatic life with long lasting effects

防范说明 **Precautionary statement(s):**

预防措施 **Prevention:**

P261 避免吸入粉尘、烟、气体、烟雾、蒸气和喷雾 Avoid breathing dust, fume, gas, mist, vapours, spray

P264 作业后彻底清洗皮肤和衣物 Wash skin and clothing thoroughly after handling

P270 使用本产品时不要进食、饮水或吸烟 Do not eat, drink or smoke when using this product

P273 避免释放到环境中 Avoid release to the environment

P280 戴防护手套、穿防护服、戴防护眼罩和戴防护面具 Wear protective gloves, protective clothing, eye protection, face protection

事故响应 **Response:**

P301 + P310 如误吞咽: 立即呼叫解毒中心或医生 IF SWALLOWED: Call a POISON CENTER if you feel unwell

P330 漱口 Rinse mouth

P302 + P352 如皮肤沾染: 用大量肥皂和水清洗 IF ON SKIN: Wash with plenty water

P321 具体治疗 (参看附加急救指示) Specific treatment (See additional emergency instructions)

P332 + P313 如发生皮肤刺激或皮疹: 求医 If skin irritation or rash occurs: Get medical advice

P362 + P364 脱掉所有沾染的衣服, 清洗后方可重新使用 Take off contaminated clothing and wash it before reuse

P305 + P351 + P338 如进入眼睛: 用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出, 取出隐形眼镜, 继续冲洗 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 如仍觉眼刺激: 求医 If eye irritation persists: Get medical advice

P304 + P340 如误吸入: 将受害人转移到空气新鲜处, 保持呼吸舒适的休息姿势 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 如感觉不适, 呼叫解毒中心或医生 Call a POISON CENTER, if you feel unwell

P391 收集溢出物 Collect spillage

安全储存 **Storage:**

P403 + P233 存放在通风良好的地方。保持容器密闭 Store in a well-ventilated place. Keep container tightly closed.

P405 存放处须加锁 Store locked up

废弃处置 Disposal:

P501 将内容物处理到得到批准的废物处理厂 Send contents to approved waste treatment plants

其他危险 Other hazards

物理和化学危险 **Physical and chemical hazards:** 详细信息见第十部分 See Section 10

健康危害 **Human health hazards:** 详细信息见第十一部分 See Section 11

环境危害 **Environmental hazards:** 详细信息见第十二部分 See Section 12

第三部分 成分/组成信息

Section 3 – Composition/Information on Ingredients

化学品性质 **Chemical characterization:** 混合物 Mixture

化学名称 Chemical Composition	CAS No.	EC#	百分含量 Weight (%)
锌 Zinc	7440-66-6	231-175-3	10~25
二氧化锰 Manganese dioxide	1313-13-9	215-202-6	35~40
氢氧化钾 Potassium hydroxide	1310-58-3	215-181-3	5~10
钢 Steel	12597-69-2	603-109-7	8~15
其他 Other	---	---	10~15

第四部分 急救措施

Section 4 - First Aid Measures

急救 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.

眼睛接触 **After eye contact:** 张开眼睛在流水下冲洗至少20分钟, 如果症状仍然持续, 请咨询医生
Flush eyes with plenty of water for Twenty minutes while holding eyelids open. Get medical attention if irritation persists.

皮肤接触 **After skin contact:** 脱去污着衣服和鞋袜, 用流动的水清洗, 然后清洗双手。衣服和鞋袜清洗后再使用。如果症状持续, 速就医 Remove contaminated clothing and shoes. Immediately wash with running water, and then wash your hands. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

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

食入 **After swallowing:** 禁止催吐。速就医 Do not induce vomiting. Get medical attention.

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

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.

不适用灭火剂Unsuitable extinguishing media: 无可用数据 No data available.

特别危险性Specific Hazards arising from the chemical: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。有些可能会燃烧但不易燃。容器在受热时可能会爆炸。有些可能在运输过程中发热
Battery may burst and release hazardous decomposition products when exposed to a fire situation. Some may burn but none ignite readily. Containers may explode when heated. Some may be transported hot.

特殊灭火方法Special fire extinguishing methods: 无可用数据No data available.

消防员防护装备Specific protective actions for fire-fighters: 穿戴正压自给式呼吸器 (SCBA); 一般的消防员防护服主要提供隔热防护, 仅能提供有限的化学防护
Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

第六部分 泄漏应急处理 Section 6 - Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序 Personal precautions, protective equipment and emergency procedures: 穿上保护装备。疏散人群。确保有足够的通风
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

环境保护措施 Environmental protection measures: 若无政府许可, 勿将材料排入周围环境
Do not discharge materials into the surrounding environment without government permission.

泄漏化学品的收容、清除方法及所使用的处置材料 Methods and material for containment and cleaning up: 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
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.

防止次生灾害的预防措施 Methods and materials for containment and cleaning up:

所有废弃物必须参照联合国, 国家, 地方性法规进行处置
For all waste handling must refer to United Nations, National and Local Regulations for disposal.

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

有关个人保护装备的资料请参阅第 8 部分 See Section 8 for information on personal protection equipment.

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

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

操作处置 Precautions for safe handling:

避免短路电池。避免电池的机械损坏。不要打开或拆卸。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.

储存 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, 避免长时间阳光照射 Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

第八部分 接触控制和个体防护 Section 8 - Exposure Controls And Personal Protection

控制参数 Control parameters:

CAS No.	ACGIH	NIOSH	OSHA
7440-66-6	N/A	N/A	N/A
1313-13-9	N/A	N/A	N/A
1310-58-3	TLV-Peak 2mg/m ³	REL-Peak 2mg/m ³	N/A
12597-69-2	N/A	N/A	N/A

适当的工程控制 Appropriate engineering controls:

当处理化学物品时, 应遵循一般的预防措施 The usual precautionary measures for handling chemicals should be followed.

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

立即脱掉所有脏衣服或被污染的衣物 Remove all soiled and contaminated clothing immediately.

在休息之前和工作结束之后洗手 Wash hands before breaks and at the end of work.

个体防护装备 Personal Protective Equipment:

呼吸系统防护 Respiratory protection: 佩戴合适的防护口罩以减少呼吸系统接触。大量泄漏时, 穿戴化学防护服包括自给式呼吸器 Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

手防护 Hand Protection: 佩戴合适的防护手套以减少皮肤接触 Wear appropriate protective gloves to reduce skin contact.

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.

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

外观与性状

银白色, 圆柱形。

Appearance and Characteristic:

Silver white, Cylindrical.

气味 Odour:

无资料 Not available.

pH值, 并指明浓度 pH, specify the concentration:

无资料 Not available.

熔点/凝固点 Melting point/freezing point:

无资料 Not available.

沸点、初沸点和沸程

无资料 Not available.

Boiling point or initial boiling point and boiling range:

闪点 Flash Point:

无资料 Not available.

易燃性 Flammability:

无资料 Not available.

溶解性 Solubility:

无资料 Not available.

爆炸极限 Lower and upper Explosion limit/flammability limit:

无资料 Not available.

蒸气压 Vapour pressure:

无资料 Not available.

蒸气密度(空气=1) Vapor density (Air=1):

无资料 Not available.

密度/相对密度Density and/or relative density:

无资料 Not available.

n-辛醇/水分配系数 Partition coefficient n-Octanol/water:

无资料 Not available.

自燃温度 Auto-ignition temperature:

无资料 Not available.

分解温度 Decomposition temperature:

无资料 Not available.

气味阈值 Odor Threshold:

无资料 Not available.

蒸发速率 Evaporation rate:

无资料 Not available.

其他信息 Other information

电压 Voltage:

1.5V

电容量 Electric capacity:

2850mAh

第十部分 稳定性和反应活性

Section 10 - Stability and Reactivity

稳定性 Chemical stability: 在正常环境温度下储存和使用稳定 Stable in storage and use at normal ambient temperature.

危险反应 Possibility of hazardous reactions: 无可用数据 No data available

应避免的条件 Conditions to Avoid: 火焰, 火花和其他热源, 禁忌物 Flames, sparks, and other sources of ignition, incompatible materials.

不相容的物质 Incompatible materials: 氧化剂, 酸, 碱 Oxidizing agents, acid base.

危险分解产物 Hazardous decomposition products: 二氧化碳, 一氧化碳, 锂的金属氧化物, 其他刺激性和毒性气体 Carbon dioxide, carbon monoxide, lithium metal oxides, other irritating and toxic gases.

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

急性毒性 Acute Toxicity

CAS No.	LC50/LD50
7440-66-6	LD50 Rat (oral): >2000mg/kg
1313-13-9	无可用数据 No data available
1310-58-3	LD50 Rat (oral): 284mg/kg
12597-69-2	无可用数据 No data available

皮肤刺激或腐蚀 Skin corrosion Or irritation: 无可用数据 No data available.

眼睛刺激或腐蚀 Serious eye damage Or irritation: 无可用数据 No data available.

呼吸或皮肤过敏 Respiratory or Skin sensitization: 无可用数据 No data available.

生殖细胞突变性 Germ Cell mutagenicity: 无可用数据 No data available.

致癌性 Carcinogenicity: 无可用数据 No data available.

生殖毒性 Reproductive toxicity: 无可用数据 No data available.

特异性靶器官系统毒性——一次性接触 Specific target organ toxicity-Single exposure: 无可用数据 No data available.

特异性靶器官系统毒性——反复接触 Specific target organ toxicity-Repeated exposure: 无可用数据 No data available.

吸入危害 Aspiration hazard: 无可用数据 No data available.

潜在的有害效应 Information on the likely routes of exposure: 无可用数据 No data available.

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

生态毒性 Ecological Toxicity:

CAS# 7440-66-6

ErC50: 0.15 mg/L - Algae (*Pseudokirchneriella subcapitata*) - 72h

持久性和降解性 Persistence and degradability: 无可用数据 No data available.

潜在的生物累积性 Bioaccumulative Potential: 无可用数据 No data available.

土壤中的迁移性 Mobility in Soil: 无可用数据 No data available.

其他有害效应 Other adverse effects: 无可用数据 No data available.

第十三部分 废弃处置

Section 13 - Disposal Considerations

废弃处置方法 Disposal methods

建议 Recommendation: 请参考国家和地方的相关法规正确进行处理 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 Disposal must be made according to official regulations.

第十四部分 运输信息

Section 14 - Transport Information

联合国编号或识别编号 UN or ID Number	
IATA, IMDG, Model Regulation	N/A
运输专用名称/说明 Proper Shipping Name/Description	
IATA, IMDG, Model Regulation	N/A
类别或项别 (次要危险) Class or Div. (Sub Hazard)	
IATA, IMDG, Model Regulation	非限制性货物 Not Subjected for transport of dangerous goods
包装等级 Packing Group	
IATA, IMDG, Model Regulation	N/A
危险性标签 Hazard Label	
IATA, IMDG, Model Regulation	N/A
危害环境 Environmental hazards	
海运污染物质 Marine pollutant:	不是
用户特别预防措施	无资料

Special precautions for user

No information available.

运输信息 Transport information:

碱性锌锰电池 LR6 AA 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(67th)国际航空运输协会, IATA特殊规定A123, IMDG《国际海运危险货物规则》(42-24), 和《联合国关于危险品运输建议书规章范本》(24th) 执行。

Alkaline battery LR6 AA is exempt from dangerous goods. It is considered non-dangerous goods by the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 67th, IATA Special Provisions A123, International Maritime Dangerous Goods Regulations (IMDG) (42-24), or the<<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (24th).

S.P.A123

该条目适用于未列入4.2节危险品表中的电池, 蓄电池。这些电池, 如: 碱锰电池、锌碳电池及镍镉电池。任何电池或以电池驱动的设备、装置或车辆, 具有潜在放热危险性的, 则在运输时必须防止This entry applies to Batteries, electric storage, not otherwise listed in Subsection 4.2–List of Dangerous Goods. Examples of such batteries are: alkali-manganese, zinc-carbon and nickel-cadmium batteries. Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent.

(a) 短路 (例如: 将电池裸露的电极进行有效的绝缘; 或者将设备中的电池断开并保护裸露的电极), 以及a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and

(b) 意外启动accidental activation

射频识别 (RFID) 标签、手表和温度记录仪等不会产生危险热量的装置, 在开启状态下可以运输。这些装置在开启状态下必须符合规定的电磁辐射标准, 确保此装置的运行不会对航空器系统产生干扰。必须确保运输途中该装置不会发出干扰信号 (如蜂鸣警报、灯光闪烁等) Devices such as radio frequency identification (RFID) tags, watches and temperature loggers, which are not capable of generating a dangerous evolution of heat, may be transported when intentionally active. When active, these devices must meet defined standards for electro-magnetic radiation to ensure that the operation of the device does not interfere with aircraft systems. The devices must not be capable of emitting disturbing signals (such as buzzing alarms, strobe lights, etc.) during transport.

当使用航空货运单时, 在航空货运单上按8.2.6注明“Not Restricted (不受限制)”字样及特殊规定号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.

运输方式 Transport Fashion: 空运 By air, 海运 by sea, 公路 by road.

第十五部分 法规信息

Section 15 - Regulatory Information

物质或混合物的安全, 健康和环境的规章 /法规信息

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

CAS No.	中国现有化学品名录 IECSC	危险化学品目录 Catalogue of hazardous chemicals
7440-66-6	列入 Listed	未列入 Not Listed
1313-13-9	列入 Listed	未列入 Not Listed
1310-58-3	列入 Listed	未列入 Not Listed
12597-69-2	列入 Listed	未列入 Not Listed

第十六部分 其他信息

Section 16 - Other Information

签发日期 Issue Date: 2025-12-02

编制部门 Issue Department: 技术部 Technical department

修改说明 Modification record:

注Notice to reader: 本份MSDS中的信息只是基于我们当前的所拥有的相关材料的信息而编制的, 只是为了描述本品的健康、安全与环境需求, 以使各有关方面能更好地了解和信任本产品。这些信息只是提供给您, 以供考虑、研究和确认。其中的一些危害预防措施描述并非唯一的。

所以本份MSDS不能作为使用本品实现任何特定目的的保证。各有关使用者有责任预先完成本品的安全性及其他方面的测试, 以评判其是否满足您的使用目的。

The information in this MSDS is based on current information we have on the material in question and is only intended to describe the health, safety and environmental needs of this product so that all interested parties can better understand and trust the product. This information is provided to you only for your consideration, research and confirmation. Some of the hazard precautions described are not unique.

Therefore, this MSDS cannot be used as a guarantee for any specific purpose. It is the responsibility of each user to complete safety and other tests on this product in advance to determine whether it meets your purpose of use.

缩略语和首字母缩写Abbreviations and acronyms

CAS: 化学文摘社 (Chemical Abstracts Service);

EC: 欧盟委员会 (European Commission);

ACGIH: 美国政府及工业卫生协会 (American Conference of Governmental Industrial Hygienists);

NIOSH: 美国国家职业安全健康研究所 (US National Institute for Occupational Safety and Health);

OSHA: 美国职业安全与卫生管理局 (US Occupational Safety and Health);

TLV: 阈限值 (Threshold Limit Value);
TWA: 时间加权平均 (Time Weighted Average);
STEL: 短期接触限值 (Short Term Exposure Limit);
PEL: 容许暴露限值 (Permissible Exposure Level);
REL: 推荐的接触限值 (Recommended Exposure Limit);
PC-STEL: 短时间接触容许浓度 (Permissible concentration-short time exposure limit);
PC-TWA: 时间加权平均容许浓度 (Permissible concentration-time weighted average);
IARC: 国际癌症研究中心 (International Agency for Research on Cancer);
LC50: 半数致死浓度 (lethal concentration, 50 percent kill);
LD50: 半数致死剂量 (lethal dose, 50 percent kill);
EC50: 半数效应浓度 (Median effective concentration);
BCF: 生物浓缩因子 (Bioconcentration Factor)
BOD: 生化需氧量 (Biochemical oxygen demand);
IECSC: 中国现有化学品名录 (Inventory of Existing Chemical Substances in China);
NOEC: 无可观察效应浓度 (No observed effect concentration);
NTP: 美国国家毒理学项目 (US National Toxicology Program);
RTECS: 化学物质毒性作用登记 (Registry of Toxic Effects of Chemical Substances);
TOC: 总有机碳 (Total Organic Carbon);
TSCA: 美国有毒物质控制法 (Toxic Substances Control Act of USA);
DSL: 加拿大国内物质清单 (the Domestic Substances List of Canada);
NDSL: 加拿大非国内物质清单 (the Non-domestic Substances List of Canada);
TDG: 联合国关于危险货物运输的建议书规章范本 (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations)

批准人 Approver: 郑书标

报告结束 End of report

