

Report No.: TSZ23110224-P29-R02

材料安全数据表

Material Safety Data Sheet

有效期至 2024 年 12 月 31 日

样品名称: 锂离子聚合物电芯

Sample name: **Li-ion Polymer Cell**

样品型号:

YD 450912

Sample model:

委托单位: 湖南亿等新能源有限公司

Applicant:

签发时间 Date of issue: 2023.12.07

Written by 1482

Approved by 段记祷

有限公司

Shenzhen Tiansu Calibration and Testing Co., Ltd.

(01-03)

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* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request. 这份材料安全数据表是根据客户提供的信息编辑,其内容和格式按客户要求来修订。

第一部分-化学品及企业标识			
Section 1	-Chemical Product and Company Identification		
产品名称	锂离子聚合物电芯		
Product Name	Li-ion Polymer Cell		
型号	YD 450912		
Model	10 400012		
商标			
Trade Mark			
额定参数	3.7V/33mAh/0.1221Wh		
Ratings	0.7 \$700117 (170. 122 1 \$ \$ \$ 11		
重量	0.7g		
Weight	0.79		
生产单位			
Manufacturer			
生产单位地址			
Manufacturer			
Address			
应急电话	13590102651		
Emergency Telephone	15590102051		
传真			
Fax			

第二部分-成分信息

Section 2- Composition Information

化学成分	化学式	CAS 号	重量含量(%)
Chemical Composition	Chemical Formula	CAS No.	Weight (%)
钴酸锂	LiCoO ₂	12190-79-3	15 - 40
Lithium cobaltate	2.0002	12.00 70 0	10 10
石墨	С	7782-42-5	10 - 30
Graphite	C	1102-42-3	10 - 30
六氟磷酸锂			
Lithium	$LiPF_6$	21324-40-3	10 - 30
hexafluorophosphate			
铜箔	Cu	7440-50-8	7-13
Copper	<u> </u>	7440-00-0	1-13

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AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	raye	3/11 Fayes			
铝箔 Aluminium	AI	7429-90-5	5-10		
镍					
Nickel	Ni	7440-02-0	1-5		
	Section 3- Haz	zards Identification			
紧急情况概述	不适用				
Emergency overview	N/A				
标签元素					
Label elements:					
危险标签图	不适用				
Hazard pictogram(s)	Not Applicable				
提示语	不适用				
Signal word	Not Applicable				
危险声明	不适用				
Hazard statement(s)	Not Applicable				
预防声明					
Precautionary statemer					
预防 :	不适用				
Prevention	Not Applicable				
反应 Boonana	不适用 Not Applicable				
Response 废弃处理	Not Applicable 不适用				
Disposal	Not Applicable				
环境危害					
Environmental hazards	7 7	ormation			
重要症状	见第11部分更多				
Important symptoms:		for more information			
, , , , , , , , , , , , , , , , , , ,					
	7N II FIF.	77 77 16 76			
	Section 4- Fi	rst Aid Measures			
		用大量的清水冲洗至少15分钟,	翻起上下眼睑, 直到化学的残		
眼睛接触	留物消失为止,:				
Eye contact		Flush eyes with plenty of water for least 15 minutes, occasionally lifting the			
		upper and lower eyelids. Get medical aid.			
		万一接触,用大量的水冲洗至少15分钟,同时除去污染的衣物和鞋子,迅速就			
皮肤接触	医。				
Skin contact		Remove contaminated clothes and rinse skin with plenty of water or shower			
		for 15 minutes. Get medical aid.			
吸入		立即从暴露处移至空气清新处,如果呼吸困难给予输氧,立即就医。			
Inhalation		Remove from exposure and move to fresh air immediately. Use oxygen if			
		available.			
摄入		饮用两杯牛奶或水,如果当事人仍然清醒可以采取催吐的方法,并且立即就医。			
Ingestion		Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.			
	unconscious. C	all a pnysician.			

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第五部分-消防措施				
Section 5- Fire Fighting Measures				
燃点	不适用			
Flash Point	N/A			
自燃温度	不适用			
Auto-Ignition Temperature	N/A			
灭火介质	碳氢表面活性剂, 二氧化碳			
Extinguishing Media	Hydrocarbon surfactant, CO ₂			
特殊灭火程序	自给式呼吸器			
Special Fire-Fighting Procedures	Self-contained breathing apparatus			
异常火灾或爆炸	当电芯暴露于过热的环境中时,安全阀可能会打开			
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents			
燃烧产生的危险物品	一氧化碳,二氧化碳,锂氧化物烟气			
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.			

第六部分-泄露应急处理

Section 6- Accidental Release Measures

个人预防措施、保护设备和应急程序:

如果电池被泄露,让人员离开该区域直到烟雾消散。提供最大限度的通风,清除有害气体。首选的反应就是离开这个地区并消散气体,避免皮肤和眼睛接触或吸入气体。用吸收剂清除溢出的液体然后焚烧。如果电池泄漏发生时,液体可以用砂、泥土或其他惰性物质来吸收,污染区域应该保持通风。

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate, Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.

环境预防措施:

不允许产品到达排水系统或任何水源。

如果渗透进排水系统或任何水源, 通知相应的部门。

不允许进入下水道/表面或地下水。

Environment precautions:

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

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

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

抑制和清理材料的方法:

如果电池外壳被拆除,少量电解液可能会泄漏。收集所有材料放进一个塑料容器。根据当地的法律法规来处置,避免可溶物质进入大地、下水道或水源。

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic

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lined container. Dispose off according to the local law and rules, Avoid leached substances to get into the earth, canalization or waters.

第七部分-操作处置和储存				
Sect	tion 7– Handling and Storage			
	禁止打开、毁坏或焚烧电池,因为电池有可能在这些处理过程中发生爆炸、破			
	裂或泄露等事故。			
	禁止将电池短路、过充、强制放电或扔入火中。			
	禁止挤压或刺穿电池,或将电池浸入溶液中。			
操作处置	The battery should not be opened, destroyed or incinerate, since they may			
Handling	leak or rupture and release to the environment the ingredients that they			
	contain in the hermetically sealed container.			
	Do not short circuit terminals, or over charge the battery, forced			
	over-discharge, throw to fire.			
	Do not crush or puncture the battery, or immerse in liquids.			
	禁止物理或电滥用,禁止高温储存,最好将电池储存在阴凉、干燥、通风及温			
	度变化较小的环境中。			
	禁止将电池接触加热设备,或将电池长时间直接暴露在阳光中。			
储存	Avoid mechanical or electrical abuse. Storage preferably in cool, dry and			
Storage	ventilated area, which is subject to little temperature change. Storage at			
	high temperatures should be avoided.			
	Do not place the battery near heating equipment, nor expose to direct			
	sunlight for long periods.			
	拆解、挤压、直接放入火中或高温条件下, 电池可能发生爆炸和燃烧。			
上 // 再 // 子 // // // // // // // // // // // /	禁止短接或将电池正负极错误的安装在设备中。			
其他要注意的防范措施 Other Precautions	The battery may explode or cause burns, if disassembled, crushed or			
	exposed to fire or high temperatures. Do not short or install with incorrect			
	polarity.			
	第八部分-接触控制和个体防护			
Section 8- Exposure Controls/Personal Protection				
	设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。			
设计控制	Use local exhaust ventilation or other engineering controls to control sources			
Engineering Controls	of dust, mist, fumes and vapor.			
	Keep away from heat and open flame. Store in a cool, dry place.			

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呼吸防护:在正常情况下不需要。 皮肤和身体防护:在正常情况下不需要,如果处理一个裂开的或泄漏的电池需要穿戴适当的防护服和手套。 手保护:如果处理一个裂开的或泄漏的电池需要戴适当手套。 眼睛保护:在正常情况下不需要,如果处理一个裂开的或泄漏的电池需要戴上安全眼镜。
要穿戴适当的防护服和手套。
手保护:如果处理一个裂开的或泄漏的电池需要戴适当手套。 眼睛保护:在正常情况下不需要,如果处理一个裂开的或泄漏的电池需要戴上 安全眼镜。
眼睛保护:在正常情况下不需要,如果处理一个裂开的或泄漏的电池需要戴上 安全眼镜。
个人防护装备 安全眼镜。
Personal Protective Equipment Respiratory Protection: Not necessary under normal conditions.
Skin and body Protection: Not necessary under normal conditions, Wear
suitable protective clothing and gloves if handling an open or leaking battery.
Hand protection: Wear suitable gloves if handling an open or leaking battery.
Eye Protection: Not necessary under normal conditions, Wear safety
glasses if handling an open or leaking battery.
在工作区域应该有一个立即可以使用的安全淋浴和喷水洗眼器。
Other Protective Equipment Have a safety snower and eye wash fountain readily available in the
immediate work area.
区生措施 在工作区域不得进食,饮水或吸烟。
Hygiene Measures Do not eat, drink, or smoke in work area. Maintain good housekeeping.
第九部分-物理和化学特性
Section 9- Physical and Chemical Properties
页色 黄色
Color Yellow
气味 不适用 Not Applicable
を を Mot Applicable
Mot Applicable 対点/解用点 不活用
容点/凝固点 不适用 Melting point/freezing point Not Applicable
#点、沸点范围: 不适用
கல் அல்று: Boiling Point and Boiling range Not Applicable
B燃度 不适用
Flash Point Not Applicable
自燃 可爆炸的 上 下极 限
Joper/lower flammability or A 本地用
xplosive limits Not Applicable
素汽压 不适用

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新汽音度 Vapor Density Not Applicable 和水電度 Relative density 水溶性 Solubility in Water	read 3d	Page 7 / 11 Pages
Relative density		不适用
Relative density	Vapor Density	Not Applicable
水溶性 Solubility in Water Not Applicable 日整温度 Auto-ignition temperature 分解温度 Decomposition temperature	相对密度	不适用
Not Applicable	Relative density	Not Applicable
自然温度 Auto-ignition temperature Auto-ignition temperature 外解温度 Decomposition temperature Not Applicable 不適用 Not Applicable 素変速率 不適用 Not Applicable 参機性(上張、天然气) Flammability (soil, gas) Not Applicable 不適用 Not Applicable 不適用 Not Applicable 不適用 Not Applicable 不適用 Not Applicable 第十部分 稳定性和反应活性 Section 10- Stability and reactivity 核定性 Stability た正在第七部分所述的条件で稳定 The product is stable under conditions described Section 7 加熱 70°C 以上或枚炭、変形、要杯、粉碎、新卵、过充电、烧路,长时间素 赛在期温的条件下。 Conditions to Avoid 本語 40元 (以上或枚炭、変形、要坏、粉碎、新卵、过充电、烧路,长时间素 赛在期温的条件下。 Conditions to Avoid 本語 40元 (以上或枚炭、変形、要环、粉碎、新卵、过充电、烧路,长时间素 第在期间的条件。 Corbon for incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料	水溶性	不适用
Auto-ignition temperature 分解温度 Decomposition temperature ※交達率 Evaporation rate ※ 例如	Solubility in Water	Not Applicable
Pipe Bar	自燃温度	不适用
Not Applicable	Auto-ignition temperature	Not Applicable
素皮速率 Evaporation rate Not Applicable 易燃性(上壤、天然气) Flammability (soil, gas) 粘性 Viscosity Not Applicable 第十部分 稳定性和反应活性 Section 10- Stability and reactivity 稳定性 Stability た話用 下透用 下透用 下透用 下透用 下透用 下透用 下透用 下	分解温度	不适用
Not Applicable Simple S	Decomposition temperature	Not Applicable
馬原性(上壤、天然气) Flammability (soil, gas) Not Applicable ***********************************	蒸发速率	不适用
Riammability (soil, gas)		Not Applicable
Rick Viscosity Riccition 10- Stability and reactivity Pack 第七年第分所述的条件下稳定 The product is stable under conditions described Section 7 The pro	77 71111 12 (2 777 7 27111 47	不适用
Rection 10- Stability and reactivity PB 在第七部分所述的条件下稳定 The product is stable under conditions described Section 7 加热 70°C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路,长时问暴露在潮湿的条件下。 Conditions to Avoid Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料	Flammability (soil, gas)	Not Applicable
第十部分 穩定性和反应活性 Section 10- Stability and reactivity 穩定性 Stability 产品在第七部分所述的条件下稳定 The product is stable under conditions described Section 7 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。 Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料 Incompatible Materials 危险分解物 Hazardous Decomposition Products 危险反应的可能性 Possibility of Hazardous Reaction 不适用 Not Applicable 第十一部分—毒理学资料 Section 11 - Toxicological Information		
Rection 10- Stability and reactivity 検定性	Viscosity	
機定性 Stability		第十部分 稳定性和反应活性
The product is stable under conditions described Section 7 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。 Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料	Section	on 10- Stability and reactivity
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。 Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料	稳定性	产品在第七部分所述的条件下稳定
应避免的条件 Conditions to Avoid Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料 Incompatible Materials 危险分解物 Hazardous Decomposition Products 危险反应的可能性 Possibility of Hazardous Reaction 第十一部分-毒理学资料 Section 11 - Toxicological Information	Stability	The product is stable under conditions described Section 7
Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料 Incompatible Materials 危险分解物 Hazardous Decomposition Products 危险反应的可能性 Possibility of Hazardous Reaction 第十一部分—毒理学资料 Section 11 - Toxicological Information		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
Overcharge, Short circuit, Expose over a long period to humid conditions. 不兼容的材料 Incompatible Materials Dxidizing agents, acid, base. 一氧化碳、二氧化碳、氧化锂烟雾。 Carbon monoxide, carbon dioxide, lithium oxide fumes. Carbon monoxide, carbon dioxide, lithium oxide fumes. Turn H Not Applicable 第十一部分—毒理学资料 Section 11 - Toxicological Information	应避免的条件	露在潮湿的条件下。
Incompatible Materials Oxidizing agents, acid, base. 危险分解物 一氧化碳、二氧化碳、氧化锂烟雾。 Hazardous Decomposition Products Carbon monoxide, carbon dioxide, lithium oxide fumes. 危险反应的可能性 Possibility of Hazardous Reaction 不适用 Not Applicable 第十一部分-毒理学资料 Section 11 - Toxicological Information	Conditions to Avoid	
Incompatible Materials Oxidizing agents, acid, base. 危险分解物 一氧化碳、二氧化碳、氧化锂烟雾。 Hazardous Decomposition Products Carbon monoxide, carbon dioxide, lithium oxide fumes. 危险反应的可能性 Possibility of Hazardous Reaction 不适用 Not Applicable 第十一部分-毒理学资料 Section 11 - Toxicological Information	不兼容的材料	氧化剂,酸,碱。
危险分解物 Hazardous Decomposition Products 危险反应的可能性 Possibility of Hazardous Reaction 第十一部分-毒理学资料 Section 11 - Toxicological Information		
Hazardous Decomposition Products一氧化碳、二氧化碳、氧化锂烟雾。 Carbon monoxide, carbon dioxide, lithium oxide fumes.危险反应的可能性 Possibility of Hazardous Reaction不适用 Not Applicable第十一部分-毒理学资料Section 11 - Toxicological Information	-	existency against, acia, bacc.
ProductsCarbon monoxide, carbon dioxide, lithium oxide fumes.危险反应的可能性 Possibility of Hazardous Reaction不适用 Not Applicable第十一部分-毒理学资料Section 11 - Toxicological Information	7 - 1 - 71 711 11	一氧化碳、二氧化碳、氧化锂烟雾。
危险反应的可能性 Possibility of Hazardous Reaction 第十一部分-毒理学资料 Section 11 - Toxicological Information	<u> </u>	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Possibility of Hazardous Reaction Not Applicable 第十一部分-毒理学资料 Section 11 - Toxicological Information		
Reaction Not Applicable 第十一部分-毒理学资料 Section 11 - Toxicological Information		不适用
第十一部分-毒理学资料 Section 11 - Toxicological Information		Not Applicable
		第十一部分-毒理学资料
刺激 如果电芯的外壳受到机械、热或电的滥用到达一定程度,会发生刺激的风险。	Section	11 - Toxicological Information
	刺激	如果电芯的外壳受到机械、热或电的滥用到达一定程度,会发生刺激的风险。

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Irritation	Page 8 / 11 Pages 如果发生这种情况,可能会刺激皮肤、眼睛和呼吸道。
	Risk of irritation occurs only if the cell is mechanically, thermally or
	electrically abused to the point of compromising the enclosure. If this occurs,
	irritation to the skin, eyes and respiratory tract may occur.
致过敏	不适用
Sensitization	Not Applicable
影响神经系统	不适用
Neurological Effects	Not Applicable
致畸	不适用
Teratogenicity	Not Applicable
再生毒性	不适用
Reproductive Toxicity	Not Applicable
诱变(遗传效应)	不适用
Mutagenicity (Genetic Effects)	Not Applicable
附带材料毒理性	不适用
Toxicologically Synergistic	Not Applicable
Materials	
	第十二部分-生态学资料
Sect	ion 12 [–] Ecological Information
生态毒性	不适用
Ecological Toxicity	Not Applicable
在土壤中的流动性	不适用
Mobility in soil	Not Applicable
持久性和分解性	不适用
Persistence and Degradability	Not Applicable
生物聚积	不适用
Bioaccumulation potential	Not Applicable
	ナゾ田
其他不利影响	

第十三部分-废弃处置

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Sect	ion 13- Disposal Considerations
产品废弃处理建议 Product disposal recommendation	遵守当地、州和联邦法律和法规。 Observe local, state and federal laws and regulations.
包装处理建议 Packaging disposal recommendation	废弃处理必须根据当地法规 Disposal must be made according to official regulations
Sect	第十四部分-运输信息 ion 14 - Transport Information
运输标签 Label for conveyance	锂电池标签 Lithium Battery Label
UN 编号 UN Number	UN 3480 或 UN 3481 UN 3480 or UN 3481
包装等级 Packing group	
海洋污染物 Marine pollutant	无污染 No
联合国运输专用名称 UN Proper shipping name	锂离子电池(包括锂离子聚合物电池) Lithium ion Batteries (Including lithium ion polymer batteries) 锂离子电池和设备包装在一起(包括锂离子聚合物电池) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) 设备里内含锂离子电池(包括锂离子聚合物电池) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)
	可根据国际民用航空组织(ICAO), TI 或国际航空协会(IATA) DGR 65 版本包装说明 965 第 IB 节规定或 966~967 第 II 节规定进行空运

Address: No.2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China
Web: www.tiansu.org E-mail: tsjc@tiansu.org Tel: 0755-89457984

ICAO/IATA



Can be shipped by air in accordance with international Civil Aviation Organization (ICAO) , TI or International Air Transport Association (IATA) DGR 65th Packing Instructions Section IB of 965 or Section II of 966 $\sim\!967$ appropriately.



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IMDG CODE	《国际海运危险货物规则》特殊规定 188 IMDG CODE (Amdt 41-22) International Maritime Dangerous Goods Code under Special Provision 188 IMDG CODE (Amdt 41-22)
ADR	《国际危险货物道路运输欧洲协定》(ADR)根据特殊规定 188 European Agreement concerning the International Carriage of Dangerous Goods by Road under Special Provision 188
RID	《国际危险货物铁路运输欧洲协定》(RID)根据特殊规定 188 Regulations concerning the International Carriage of Dangerous Goods by Rail under Special Provision 188

危险品规例规定,运输前,每一个电池设计须通过联合国试验和标准手册38.3节所载的测试。

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.

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》

《Recommendation 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»

《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)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》 (RCRA)

《国际危险货物道路运输欧洲协定》

《European Agreement concerning the International Carriage of Dangerous》

《国际危险货物铁路运输欧洲协定》

《Regulations concerning the International Carriage of Dangerous》

根据所有联邦、州和地方法律。

In according with all Federal, State and local laws.

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第十六部分-其它信息

Section 16- Other Information

上面的信息被认为是准确代表了目前最好的信息提供给我们。然而,飞机没有对商品性能保证或任何其他保证,包括明示或暗示,对这类信息的使用我们不承担责任。用户应作出自己的调查,以确定是否适合其特定用途的信息。虽然在此处所包含的数据的准备已经采取了合理的预防措施,这是仅为你提供的信息、考虑和调查。这个化学品安全技术说明书为本产品提供了安全操作指南和使用指南,它并不能对所有可能发生的情况提供建议,因此,您特殊使用该产品应先进行评估,以确定是否需要额外的预防措施。

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-- End of Report ---- 报告结束 --



