



COSMX LITHIUM ION POLYMER BATTERY SAFETY DATA SHEET

Ref No:ARC 20200101-36

PRODUCT NAME:产品名称 Rechargeable Lithium Polymer single cell Battery, PACK Volts:电压 3.85V
可充电式单电芯锂离子聚合物电池, 电池

TRADE NAME: 贸易名称 N/A

CHEMICAL SYSTEM:化学系统 Lithium Ion锂离子

PRODUCT MODEL:产品型号 **C11P1904**

Nominal Capacity: 额定容量 **4830mAh**



Designed for Recharge: yes 可充电设计: 是

SECTION 1- MANUFACTURE INFORMATION 生产信息-第一节

Manufactured By:生产于:

Telephone Number for Information联系信息

ZHU HAI COSMX BATTERY Co.,Ltd 珠海冠宇电池有限公司

No.209,Zhufeng Way,Xinqing Science & Technology
 Park,Doumen District,Zhuhai519180, P.R.China
 珠海市斗门区新青科技工业园珠峰大道209号

Tel:86-756-6199908
 Fax:86-756-6199910

Zip Code:邮编519180

Prepared Date:生效日期Mar-04-2020

SECTION 2- MANUFACTURE INFORMATION 生产信息-第二节

IMPORTANT NOTE:The battery should not be opened or burned.Exposure to the ingredients contained within or their combustion products could be harmful.重要提示:请勿解剖或燃烧电池, 接触内部材料或燃烧产生的氧化物是有害的。

MATERIAL OR INGREDIENT物料或原材料	PEL(OSHA)职业安全与健康标准	TLV(ACGIH)污染物排放临界值	wt%
Graphite (CAS# 7782-42-5)石墨	5mg/m3 TWA(respirable fraction)可呼吸的部分 15mg/m3 TWA(tatal dust)整体粉尘	2mg/m3 TWA(respirable fraction)可呼吸的部分	7~25
Lithium Cobalt Oxide (CAS# 12190-79-3)钴酸锂	0.1mg/m3 TWA(as Co)如钴	0.02mg/m3 TWA (as Co)如钴	15~40
Hexafluoropropylene-vinylidene fluoride Copolymer (CAS#9011-17-0) 六氟丙烯-亚乙烯基 氟化物 共聚物	None established 无定义	None established 无定义	3~15
Lithium Hexafluorophosphate (CAS#21324-40-3)六氟磷酸锂	None established 无定义	None established 无定义	0~5
Acetylene Black (CAS#1333-86-4)乙炔黑	3.5mg/m3 TWA (as carbonate black)如碳酸盐黑	3.5mg/m3 TWA (as carbonate black)如碳酸盐黑	0-2
Diethyl Carbonate (CAS#105-58-8)碳酸二乙酯	None established 无定义	None established 无定义	0-15



珠海冠宇电池有限公司

ZHU HAI COSMX BATTERY Co.,Ltd

No.209,Zhufeng Way,Xinqing Science & Technology Park,Doumen District,Zhuhai519180, P.R.China

珠海市斗门区新青科技工业园珠峰大道209号

Tel:86-756- 6199908 Fax:86-756-6199910 http://www.cosmx.com.cn

Dimethyl Carbonate 碳酸二甲酯	(CAS#616-38-6)	None established 无定义	None established 无定义	0-15
Ethyl Methyl Carbonate 碳酸甲乙酯	(CAS#623-53-0)	None established 无定义	None established 无定义	0-15
Propylene Carbonate 碳酸丙烯酯	(CAS#108-32-7)	None established 无定义	None established 无定义	0-15
Ethylene Carbonate 1)碳酸亚乙酯	(CAS#96-49-1)	None established 无定义	None established 无定义	0-15

SECTION 3-Independent Certification of Lithium-Ion cell Transportation Model Regulation第3节-锂离子电芯运输独立认证规范

There are being tested in accordance with the UN Model Regulation,Manual of Test and Criteria,Part III,subsection 38.3.

根据联合国规范进行测试，测试方法与标准参照38.3小节第三部分

T1	Altitude Simulation 模拟高空测试	No mass loss, leakage, venting, disassembly, rupture, and fire, OCV should not be less than 90% before testing无损重，无泄漏，无漏气，无分解，无破裂，无起火，开路电压损耗较测试前小于10%。	Passed合格	
T2	Thermal Test 热循环	No mass loss, leakage, venting, disassembly, rupture, and fire, OCV should not be less than 90% before testing无损重，无泄漏，无漏气，无分解，无破裂，无起火，开路电压损耗较测试前小于10%。	Passed合格	
T3	Vibration 振动	No mass loss, leakage, venting, disassembly, rupture, and fire, OCV should not be less than 90% before testing无损重，无泄漏，无漏气，无分解，无破裂，无起火，开路电压损耗较测试前小于10%。	Passed合格	
T4	Shock 冲击	No mass loss, leakage, venting, disassembly, rupture, and fire, OCV should not be less than 90% before testing无损重，无泄漏，无漏气，无分解，无破裂，无起火，开路电压损耗较测试前小于10%。	Passed合格	
T5	External Short circuit 外部短路	External temperature should not exceed 170 degree, No disassembly, rupture, and fire within six hours of this test外部温度小于170度，测试时间在6小时内无分解，无破损，无起火	Passed合格	
T6	Impact 撞击	External temperature should not exceed 170 degree, No disassembly and fire within six hours of this test外部温度小于170度，测试时间在6小时内无分解，无起火	Passed合格	
T7	Overcharge 过充	No disassembly and fire within seven days of this test7日内无分解或起火	Passed合格	Battery only仅限电池
T8	Forced Discharge 过放	No disassembly and fire within seven days of this test7日内无分解或起火	Passed合格	Cell only仅限电芯

The lithium battery should pass the UN38.3 test, if the battery can not pass the testing, it can not transport, should redesign. If the battery through the test, for the lithium battery only, follow the UN3480 and the packing requirements for PI965, for the lithium battery which installed in equipment, follow the UN3481 and the packing requirements for PI967.

锂电池应该通过UN38.3测试，如果电池不能通过此测试，则不能运输，需要重新设计。如果仅限锂电池通过测试，遵循UN3480和PI965的包装要求，锂电池的设备安装需要遵循UN3481，包装需求遵循PI967。

SECTION 4-HAZARDS IDENTIFICATION第4节-危害物鉴定

4.1 Classification 类别

This product is an article which is a sealed battery and as such does not require an SDS per the OSHA hazard communication standards unless ruptured. 此产品是密封电池，不是每个OSHA hazard communication都需要一个SDS。

The hazards indicated are for a ruptured battery 危害物质包括破损电池

Acute toxicity – Oral 急性中毒-口服	Category 4
Acute toxicity - Dermal 急性中毒-表层	Category 4
Skin corrosion/irritation 皮肤腐蚀/刺激	Category 1 Sub-category C



Serious eye damage/eye irritation 眼部严重受损/眼部刺激	Category 1
Skin sensitization 皮肤过敏	Category 1
Carcinogenicity 致癌	Category 2
Specific target organ toxicity (repeated exposure) 特殊器官中毒 (重复暴露)	Category 1

4.2 Label elements 标签内容

4.2.1 Singal word Danger 单个字体 危险

4.2.2 Hazard Statements 危害声明

Harmful if swallowed 鼓胀有危害性

Toxic if swallowed 鼓胀有毒性

Harmful in contact with skin 接触皮肤有危害性

Cause severe skin burns and eye damage 会引起皮肤严重烧伤，眼部灼伤

May cause an allergic or reaction 可能会引起过敏与不适

May cause cancer 可能会引起癌症

Cause damage to organs 可能引起器官受损

May cause respiratory irritation 可能引起呼吸刺激

4.2.3 Symbol 标识



This product is an article which contains a chemical substance. Safety information is given for exposure to the article as solid. Intended use of the product should not result in exposure to the chemical substance, This is a battery. In case of rupture: the above hazards exist. 此产品包含化学成分，安全信息与此条例保持一致性，有意使用此产品不能将化学物质暴露出来。此电池一旦破损就会存在以上危害。

4.3 Precautionary Statements 预防声明

4.3.1 Precautionary Statements-Prevention 预防声明--阻止

Obtain special instructions before use. 使用前获取特殊说明

Do not handle until all safety precautions have been read and understood. 所有安全措施阅读并理解后才能使用

Use personal protective equipment as required. 如有需要请使用个人防护设备

Wash face, hands and any exposed skin thoroughly after handling. 使用后彻底地用清水洗脸，洗手。

Contaminated work clothing should not be allowed out of the workplace. 受污染的工作服不允许带离工作区域。

Keep away from flames and hot surface --no smoking. 远离烟火和高温--不许吸烟

Do not breath dust/fume/gas/mist/vapors/spray. 不能吸取粉尘/烟雾/气体/雾气/蒸汽/喷雾

Do not eat, drink or smoke when using this product. 在使用此产品时不能食用， 饮用

Wear protective gloves 佩戴手套防护

4.3.2 Precautionary Statements – Response 预防声明--响应

If exposed or connected: Get medical advice/attention. Specific treatment(see supplemental first aid/instruction on this label). 如有暴露或者接触：获取医学建议或警示。特殊治疗（查看补充的急救措施或在标签上说明）

Skin 皮肤

If on skin: wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell.

如果在皮肤上：用大量的肥皂与水进行清洗，在清洗前脱掉已经污染的衣服，如果皮肤受到刺激或引起皮疹：如感到不适建议医学用药与关注

Eye 眼睛

If in eyes: Rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, Continue rinsing. Call a poison center or doctor/physician.

如果进入眼睛内：用水小心的冲洗眼镜几分钟，如有缓解，摘掉隐形眼镜继续冲洗。拨打急救中心或者医生，医师

Inhalation

If inhalation: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Ingestion 吸入

If swallowed: rinse mouth, do not induce vomiting ,Call a poison center or doctor/physician if

feel unwell 如果吞咽，冲洗口腔，不要引起呕吐，如果感到不适拨打急救中心，或医生，医师。



4.3.3 Precautionary Statements – Storage 预防声明-存储

Store locked up 关闭封锁存储

4.3.4 Precautionary Statements – Disposal 预防声明-处理

Dispose of contents/container to an approved waste disposal plant.运用可利用的容器或器件来解决已经认可的处理方案。

4.4 Hazards not otherwise classified (HNOC)

Not applicable 不适用

4.5 Unknown Toxicity 未知有毒物质

10% of the mixture consists of ingredient(s) of unknown toxicity.有10%的混合成分属于未知有毒物质

4.6 Other information

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic 危害水性组织，可能会引起长期不良反应

4.7 Interactions with other chemicals 与其他化学成分相互反应

Use of alcoholic beverages may enhance toxic effect.用含有酒精成分的饮料可能会增加毒性反应

Since electrolyte is flammable liquid, it does not bring close to fire. It may cause moderate to severe eye irritation, dryness of the skin. Breathing of its mist, vapor or fume may irritate nose, throat and lungs. Exposure of electrolyte material in the area which contains water may generate hydrofluoric acid, which can cause immediate burns on skin, severe eye burn. The ingestion of electrolyte can cause serious chemical burns of mouth, esophagus and gastrointestinal tract.由于电解液是易燃液体，它不能靠近火源。它会导致中度到重度的眼睛过敏、皮肤干燥。吸入它的雾气或蒸汽会刺激鼻子、喉咙和肺。电解液如果暴露于有水的环境，则会生成氢氟酸，这可能会导致皮肤瞬间烧伤，严重的眼睛烧伤。电解液的摄入可以导致口腔、食道和胃肠道严重的化学烧伤。

SECTION 5-FIRST-AID MEASURES

▶Eyes: Flush with water for at least 15 minutes. If irritation occurs and persists, contact a medical doctor.

▶Skin: Remove contaminated clothing and thoroughly wash with soap and plenty of water. If irritation persists, contact a medical doctor.

▶Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration and see a medical doctor IMMEDIATELY.

第5节 急救措施

眼睛：用水冲洗至少15分钟。如刺激仍存在，需要就医。

皮肤：移除被污染的衣服，用肥皂在大量的水下清洗彻底。如刺激仍存在，需要就医。

吸入：转移至新鲜空气中，如呼吸困难和难受仍存在，需要就医。如果呼吸停止，需要做人工呼吸并立即紧急就医。

SECTION 6-FIRE-FIGHTING MEASURE

▶Hazardous Combustion Products: When burned, hazardous products of combustion including fumes of carbon monoxide, carbon dioxide, and fluorine can occur.

▶Extinguishing

Media: Water, carbon dioxide, dry chemical, or foam.

▶Basic Fire Fighting Procedures:

Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

▶Unusual Fire & Explosion Hazards: This material does not represent an unusual fire or explosion hazard.

Flash Point :38°C(CC)(100F).

Autoignition Temperature: No Data.

Flammability Limits in Air, Lower, % by Volume: 1.4.

Flammability Limits in air, Upper, % by Volume: 11.

第6节 消防措施

有害燃烧产物：燃烧时，有害燃烧产物包括一氧化碳气体、二氧化碳、氟。

灭火剂：水、二氧化碳、干粉灭火剂或泡沫。

基本消防程序：穿通过美国职业安全与卫生研究院 / 矿山安全和健康管理局批准的正压自给式呼吸器和防护服以防止有害物质与皮肤和眼睛接触。

特殊燃烧和爆炸危险：这种物料并不代表特殊燃烧或爆炸危险。

燃点:38°C(CC)(100 f)。

自燃温度:没有数据。

在空气中可燃性限制, 下限, 按体积%: 1.4。

在空气中可燃性限制, 上限, 按体积%: 11。

SECTION 7- ACCIDENTAL RELEASE MEASURES

▶Procedure for Release and Spill: Sweep up and place in a suitable container, dispose or waste according to all local, state and Federal Laws and Regulations.

▶Before cleanup measures begin, review the entire MSDS with particular attention potential Health Effects; and on Recommended Personal Protective Equipment.

第7节- 泄漏应急处理措施

释放和泄漏的处理程序：清理收拾与存放在恰当的容器中，根据当地或联邦的法律法规进行处理或报废。

在清理作业开始前，检查整个产品的化学品安全技术说明尤其是潜在的健康影响，并着装推荐的个人防护装备。



SECTION 8-HANDLING AND STORAGE

▶Handling

Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers.

Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform.

Do not connect the positive terminal to the negative terminal with electrically conductive material.

▶Storage conditions(suitable, to be avoided): Do not place the battery cell near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in shortened battery cell life and degrade performance.

Store in cool place(temperature:-20-45°C, humidity:45-75%).

Incompatible products:conductive materials,water,seawater,strong oxidizers and strong acids.

Packing material (recommended,not suitable): Insulative and tearprllf materials are recommended.

第 8 节—作业与存储

作业:

具体安全操作建议: 不要将电芯扔入火中或暴露于高温环境中。不要将电芯浸泡水或海水里, 不要暴露于强氧化剂中。不要给电芯很强的机械冲击或扔落。千万不要对电芯做拆解、修改或改变形状。不要用导电材料连接正负两极。

存储条件(恰当的, 需要避免的): 不要存放在发热的设备附近, 或长时间直接暴露于阳光中, 高温会缩短电池的寿命和降低性能。

存放于阴凉地方(温度: -20-45°C, 湿度:45-75%)

不相容的产品:导电材料、水、海水、强氧化剂、强酸。

包装材料(推荐的, 不适合的):推荐绝缘和耐磨材料。

SECTION 9-EXPOSURE CONTROLS/PERSONAL PROTECTION

▶Engineering controls: Investigate engineering techniques to reduce exposures use with adequate ventilation and recommended personal protective equipment.

▶Eye/Face protection:Use good industrial practice to avoid eye contact.Processing of this product releases vapors or fumes which may cause eye initiation.Where eye contact may be likely wear chemical goggles and have eye flushing equipment available.

▶Skin protection:Minimize skin contamination by following good industrial hygiene practices.Wearing protective gloves is recommended.Wash hands and contaminated skin thoroughly after handling.

processing vapors. When adequate ventilation is not available, wear a

NIOSH/MSHA respirator approved for protection against inorganics dusts.

▶Special clothing: Robber gloves.

第 9 节—泄露控制 / 个人防护

工程控制: 研究相应的工程技术, 通过足够的通风和推荐的个人防护设备以减少暴露作业。

眼睛/面部防护:采用良好的工业实践来避免目光接触。产品生产中释放蒸汽或烟雾可能刺激眼睛。眼睛接触区域需要佩戴化学护目镜和在区域配置可用的眼冲洗设备。

皮肤保护:通过遵循良好的工业卫生实践来减少皮肤污染。建议戴防护手套。作业后彻底清洗双手和被污染的皮肤。

呼吸防护:避免吸入粉尘和工业废气。通风不充分时,穿职业安全与卫生研究院 / 矿山安全和健康管理局批准的口罩加以防护。

专用工作服:橡胶手套。

SECTION 10-HYSICA DATE

state: Solid

(without outer PVC COVER)

pH:Not Applicable

Applicable

Density: Not Applicable

Solubility: Not Soluble.

第 10 节—物理数据

物理状态: 固体

形式:几何颜色(没有外PVC盖)

气味:无味

pH值:不适用

适用

SECTION 11-STABILITY AND REACTIVITY

Hazardous reactions may occur under some specific conditions.

▶Conditions to avoid: When a battery cell is exposed to an external short-circuit,crushes,modification,high temperature above 100 degree C, it will be the cause of heat generation and ignition.Avoid to be exposed to direct sunlight and high humidity.

▶Materials to avoid: Conductive materials,water,seawater,strong oxidizers and strong acids.

▶Hazardous decomposition products: Acrid or harmful gas is emitted during fire.

第 11 节—稳定性与反应活性

在一些特定的条件下可能发生危险反应。

应避免之条件:当电池暴露在外短路、挤压、变形、高温100度以上,这些将导致发热和燃烧。避免暴露于阳光直射和高湿度环境中。

应避免之物质:导电材料、水、海水、强氧化剂、强酸。

应避免之危险分解产品:刺激或有害气体在火中的排放。

Physical
Form:Geometric color

Odor : No odor

Flash point: Not



珠海冠宇电池有限公司
ZHU HAI COSMX BATTERY Co.,Ltd

No.209,Zhufeng Way,Xinqing Science & Technology Park,Doumen District,Zhuhai519180, P.R.China

珠海市斗门区新青科技工业园珠峰大道209号

Tel:86-756- 6199908 Fax:86-756-6199910 http://www.cosmx.com.cn

SECTION 12-TOXICOLOGICAL INFORMATION

Eco toxicological Information:No information available.

Local Environmental Effects: Unknown.

Since some internal materials remain in the environment,do not bury or throw out into the environment.

第 1 2 节—毒理学资料

生态毒理学资料:无可用信息。

当地的环境影响:未知。

由于一些内部材料会残留在环境里,故不要埋葬或扔到环境中。

SECTION 13-DISPOSAL INFORMATION

Waste disposal must be in accordance with the applicable regulations.Disposal of the lithium ion battery cells should be performed by permitted, professional disposal Page:

firms knowledgeable in State or Local requirements of hazardous waste treatment and hazardous waste transportation.Incineration should never be performed by battery but users,eventually by trained professional in authorized facility wity proper gas and fume treatment.

第 1 3 节—废弃处理

废物处置必须依照国家有关规定。锂离子电池的报废应该由专业的被核准的公司进行报废:

此公司应该通晓本国或当地关于危险废物处理和危险废物运输的要求, 焚化绝不能由用户来执行, 而最终由训练有素的人员采用有合适的废气和烟雾处理的经认可的专用设备来执行。

SECTION 14-TRANSPORTATION/SHIPPING INFORMATION 第 1 4 节—运输 / 运送信息

1.US DOT,ALL Cosmx batteries are not subject to the requirements of the Department of Transportation (DOT)

subchapter C,Hazardous Material Regulations since each Cosmx battery meets the exceptions under 173.185(b). The Cosmx batteries are exempted from the US DOT regulations as long as they are separated to prevent short circuits and packed in strong packing for conditions normally encountered in transportation.

美国运输部US DOT, 冠宇所有的电池不受运输部门的分章 C 有害物质法规的要求, 因为冠宇的电池型号符合173.185(b)的免责条例。冠宇电池具有美国运输部门的豁免权, 即只要电池是隔开的防止短路并用牢固的包装箱包装以应对运输中的各种条件。

2.ICAO and IATA, The lithium battery should according with the International Air Transport Association (IATA DGR 61st edition) requirements for transportation. The battery or cell should be packed and signed as following table (If the package according with PI-965 section II or sectio IB / PI-966 section II / PI-967 Section II , it is not classified as dangerous cargo) .

国际民航组织ICAO 和国际航空运输协会 IATA, 锂电池必须按IATA(IATA-DGR 61st 版)要求进行运输。锂电池组或锂电池应按下表包装(如果装箱是依据“PI-965 section II or sectio IB / PI-966 section II / PI-967 Section II, 不属于危险品)。

UN NO.	Proper Shipping Name	Power	Package requirements	Label which need to paste标签贴合需求
UN3480	Lithium Ion Batteries (limited to a maximum of 30% SoC)锂离子聚合物电池 (SOC等于或小于30%)	Cell≤20Wh Battery≤100Wh	PI965 section II	lithium battery handling label锂电池操作标签 Cargo Aircraft Only label仅限货机标签
		Cell≤20Wh Battery≤100Wh	PI965 section IB	Class 9 hazard label 第九类危险品标签 lithium battery handling label锂电池操作标签 Cargo Aircraft Only label仅限货机标签
		Cell>20Wh Battery>100Wh	PI965 section IA	Class 9 hazard label 第九类危险品标签 Cargo Aircraft Only label仅限货机标签
UN3481	Lithium Ion Batteries Contained in Equipment锂离子聚合物电池包含在设备中	Cell≤20Wh Battery≤100Wh	PI967 section II	lithium battery handling label锂电池操作标签
		Cell>20Wh Battery>100Wh	PI967 section I	Class 9 hazard label第九类危险品标签
UN3481	Lithium Ion Batteries Packed With Equipment锂离子聚合物电池与设备包装	Cell≤20Wh Battery≤100Wh	PI966 section II	lithium battery handling label锂电池操作标签
		Cell>20Wh Battery>100Wh	PI966 section I	Class 9 hazard label第九类危险品标签

Do not damage or mishandle this package. If package is damaged,batteries must be quarantined, inspected, and repacked.Cells and batteries identified by the manufacturer as being defective for safety reasons, or that have been damaged, that have the potential of producing a dangerous evolution of heat, fire or short circuit are forbidden for transport .Waste lithium batteries and lithium batteries being shipped for recycling or disposal are prohibited from air transport unless approved by the appropriate national authority of the State of origin and the State of the operator.

不要损坏或错误处理此包装。如果包装损坏, 电池必须隔离, 检查并重新打包。电芯和电池通过手册来定义由于安全因素对不良缺陷或者损坏, 生产中潜意识的演变成危害物质, 起火或者短路在运输中是被禁止的。废弃并禁止锂电池和锂电池被循环运送, 除非空运被相关国际授权组织的国家和工作人员认可。

3.IMO,all Cosmx batteries are regulated as Hazardous Material by the International Maritime Organization (IMO) when transporting more than 24 batteries or 12 battery PACKs in a single package.These must be transported according to the requirement in Special Provisions"188"and"230".

国际气象组织IMO, 当运输一个单包装超过24个电池或12个电池包, 被国际气象组织IMO规定是危险物品, 必须按特殊管理条例“188”和“230”中的规定要求来运输。

4.ADR,RID,all Cosmx batteries are regulated as Hazardous Material by the ADR (road) and RID (rail) when transporting more than 24 batteries or 12 battery PACKs in a single package .These must be transported according to the requiremint in Special Provisions "188"and"230".

陆运ADR, RID, 当运输一个单包装超过24个电池或12个电池包, 被陆运(汽运与铁运)规定是危险物品, 必须按特殊管理条例“188”和“230”中的规定要求来运输。



5.BUILDING OF NEW BATTERY PACK-if you build any of Cosmx lithium batteries into battery pack, you must assure that they are being tested in accordance with the UN Model Regulation,Manual of Test and Criteria,Part III,subsection 38.3.
建设新电池包装-当你用冠宇锂电池做电池包装,你必须保证它能按照联合国监管模型做测试,测试遵循分段38.3第三部分,手动测试和标准。

The consignment should be fully described by proper shipping name and packed,marked and in proper condition for carriage by air .The consignment is not classified as dangerous under the current edition of the IATA 61st edition Effective 01-January-2020.Dangerous goods regulation and all applicable carrier and government regulations.

货物应用适当的危险品技术名称充分描述和包装,标识和存放适当的航空运输箱中空运。如遵循当前第61st版2020年1月1日生效版的国际航空运输协会的规定则货物不会被归为危险品。危险货物监管、所有合适的承运商和政府规定。

SECTION 15-Regulatory Information

- 1.The transportation of the lithium batteries is regulated by nations "Model Regulations on Transport of Dangerous Goods".
- 2.Lithium batteries and cells are subjected to shipping requirements exceptions under 49 CFR 173.185.
- 3.Shipping of lithium batteries in aircrafts are regulated by the international civil aviation organization (ICAO) and the international air transport association (IATA) requirements in special provision UN3480 PI965 ,UN3481 PI966 or PI967.
4. Shipping of lithium batteries on sea are regulated the international maritime dangerous goods (IMDG) requirements of UN3480.
- 5.Cobalt compounds supposed hazardous and e subjected to reporting requirements of section 313 of title 1:1 of the suspended are amendments and reauthorization act of 1986 (SARA) and 40 CFR part 372.

第15节-法规信息

- 1.锂电池的运输是由国家通过“危险货物运输管理条例”进行管制。
- 2.锂电池和电芯受制于航运要求的49 CFR 173.185 文件的例外规定。
- 3.在国际民用航空组织(ICAO)和国际航空运输协会(IATA)对空运运输锂电池的要求有特别规定UN3480 PI965,UN3481 PI966或PI967。
4. 在国际海上危险物运输规则中(IMDG)海运运输锂电池的要求UN3480。
5. 钴化合物的危险报告要求标题1:1的暂停修改和再授权法案1986(SARA)313条款和40 CFR 372。

SECTION 16-Other Information

The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. DBK makes no warranty expressed or implied with respect to lithium content content information is available from DBK on request.

第16节-其他信息

这些信息和建议是在良好的信念和当前日期的准备下提出的准确信息。冠宇不做任何相对于电池锂离子成分的明示或暗示的保证,这方面的信息可从冠宇索取。

Remark:The batteries have past UN38.3 authentication and are safe for transportation,and it is advised to use dry power powder fire extinguisher in case of explosion or inflammation

备注:电池通过了UN38.3认证,运输也是安全的,并建议燃烧或爆炸时使用干粉灭火器灭火。