# 常州博康电子技术有限公司

# Changzhou Bokang Electronics Co.,Ltd 80V 4.0Ah BATTERY MSDS

# **一、制造商或供**应商资料

I. Product and Company Information

制造商或供应商名称:常州博康电子技术有限公司 Producer/Supplier: Changzhou Bokang Electronics Co.,Ltd

地址:常州市钟楼区经济开发区星港路65-6号

Add: N0.65-6 XinggangRoad.ZhonglouEconomicDevelop,ent Zone.Changzhou,Jiangsu,China

咨询 者 姓 名:蒋磊 Name of consultant: jiang lei

紧急连络电话:

Emergency Number: 0519-88065053

# 二、成分辨识资料(若该物品属纯物质·则填写"纯物质",若该物质属"混合物"则填写混合物一栏纯物质:

II. Composition / Information on Ingredients (If it is pure material, fill out "pure material". If it is mixture, fill out the "mixture" column.)

Material Name	Chemical Name	CAS No.	Wt%	
	Glass fabric <b>玻璃</b> 纤维	65997-17-3	45	
FR4	Epoxy Resin 环氧树脂	26265-08-7	28	
	Copper Foin 铜箔	7440-50-8	17	
	O-Cresol novolac epoxy(甲醛与环氧氯丙烷和邻甲基苯酚的聚合物)	29690-82-2	56	
Green paste <b>(</b> 绿漆)	Barium sulfate <b>(硫酸</b> 钡 )	7727-43-7	25	
	Acrylic ester( <b>浆—李以四醇八内</b> 添酸钼)	29570-58-9	19	
	Epoxy Acrylate(环氧丙烯酸酯)	N/A	42	
	Pigment(酞菁绿)	1328-53-6	22	
White Ink(白色油墨)	Z-Ethgl-4-methgeimidazole (2-乙基-4-甲基咪唑)	931-36-2	18	
	Filler(滑石粉)	14807-96-6	18	
Fillers(填充物)	Fillers(滑石粉)	14807-96-6	60	
Silicone modified polymer( <b>硅</b> 树脂聚合物)	Silicone modified polymer	N/A	30	
Paraffin( <b>石蜡</b> )	Paraffin	N/A	5	
Carbon black(炭黑)	Carbon black	1333-86-4	5	
	Tin(锡)	7440-31-7	89	
Solder (焊料 )	Silver(银)	7440-22-4	5	
Soluei (A+114 )	Copper (铜 )	7440-50-8	1	
	Resin(松香)	65997-05-9	5	
Plating (电镀 )	Sn (锡) 粉状	7440-31-7	99,5	
Plating (电极)	others	N/A	0,5	
Lead Eire-Dumet(导线)	Ni (镍 )	7440-02-0	42,15	
	Fe	7439-89-6	57,85	
	Cu	7440-50-8	100	
Dice	Si (硅)	7440-21-3	70,9	
	AI (铝)	7429-90-5	0,1	
	Ag	7440-22-4	28,6	
	Ni	7440-02-0	0,4	
Ink(油墨)	С	7440-44-0	100	
BaTiO3(钛酸钡)	BaTiO3	12047-27-7	69	
Nickel(镍)	Nickel	7440-02-0	2.5~7	
Copper(铜 )	Copper	7440-50-8	21	
Tin(锡)	Tin	7440-31-5	0.2~3	
	CR Rubber	9010-98-4	10~20	
	Phenolic resins	9003-35-4	10~20	
	Flame Retardants	1309-6404	5	
		108-88-3		
1603HFR - 1 Glue		02/09/1975	60	
	Solvents	78-93-3		
	110-82-7		=	
		110-54-3	7	
	Additive		1	
	107 glue( Vinyl acetal polymers, formals)	63148-64-1	80	

Glue (胶)	Calcium carbonate	471-34-1	17
	silane coupling agent	40372-72-3	3
Carbon (碳)	Carbon	N/A	50
	Sn (锡 <b>粒状</b> )	7440-31-5	11
CP <b>(化学</b> 纯)	Fe( <b>碳化</b> 铁)	12011-67-5	67
	Cu	7440-50-8	22
ALUMINUM CALCIUM SODIUM SILICATE(碳酸铝钙钠)	SODIUM SILICATE(二氧化硅)	14808-60-7	60
TITANIUM DIOXIDE( <b>二氧化</b> 钛)	TITANIUM DIOXIDE	13463-67-7	30
DIBUTYLBIS(LAUROYLOXY)STANNANE(二月桂酸二 丁基锡)	DIBUTYLBIS(LAUROYLOXY)STANNANE	77-58-7	10
Conductor (导体 )	Copper	7440-50-8	99
	Tin	7440-31-5	1
Insulation(绝缘)	Polyethylene(聚乙烯)	9002-88-4	30
	Magnesium Compound(镁聚合物)	N/A	55
	Other	N/A	15
Tin(锡)	Sn	7440-31-5	99,4
	Cu	7440-50-8	0,6
	Lithium transition metal oxidate	12190-79-3	
Positive electrode	Litnium transition metal oxidate (Li[M]m[O]n *2)	12057-17-9	20~60
	(=[][*]/	182442-95-1	
Positive electrode's base	Aluminum	7429-90-5	1~10
No gotivo electro de	Carbon	7782-42-5	10~30
Negative electrode	Carbon	7440-44-0	10.30
Negative electrode's base	Copper	7440-50-8	1~15
Electrolyte	Organic electrolyte principally involves ester carbonate	N/A	5~25
Outer case	Iron	7439-89-6	1~30

# **三、危害辨**识资料:

III. Hazards Identification

最重要 危害效 应 Major Hazard Effect	健康危害效应: (分别描述该物品被人体吸入、 溅入眼睛、皮肤接触对 人体的健康影响) Hazard Warnings for Health: (Respectively describe the impact on health after this materials is	一、吸入:I. Inhalation: 二、眼睛:II. Eye contact: 三、皮肤:III. Skin contact:
	absorbed and inhaled by human body, spilt into eyes, and contacts skin.)	Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.  Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and stimulation on the skin.  Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and stimulation on the eye. Especially, substance that causes a strong inflammation of the eyes is contained.
	环境影响: Environment impact:	Since a battery cell remains in the environment, do not throw out it into the environment
	物理性及化学性危害: Physical and chemical harms:	None
	特殊危害: Special harm:	If the electrolyte contacts with water, it will generate detrimental hydrogen fluoride. Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

# 四:急救措施

IV. First-Aid Measures

|不同暴露途径之急救方法: (描述发生以下状况以后的急救程序)

个问案器还住之态权力法:(描述文工以下价加以旧时态似住户)
First-aid measures for different exposure occasions: (Describe the first-aid procedures under the followingcircumstances)

一、吸入	二、皮肤接触	三、眼睛接触	
	Remove contaminated clothes and shoes	Do not rub one's eyes. Immediately flush eyes with water	
blow his/her nose,	immediately. Wash extraneous matter or contact	continuously for at least 15 minutes. Seek	
gargle. Seek medical	region with	medical attention immediately.	
attention if	soap and plenty of water immediately	·	
necessary	using soap and water.		

# **最重要症状及危害效**应:

Major Disease and Harm Effect:None

对急救人员之防护:

First-Aid Personnel Protection: None

对医师之提示:

# **六、**灭火措施:

# V. Fire Fighting Measure.

适用灭火剂:Suitable extinguishing media

Plenty of water, carbon dioxide gas, nitrogen gas, chemical powder fire

extinguishing medium and fire foam

灭火时可能遭遇之特殊危害:

Special Exposure Hazards: Corrosive gas may be emitted during fire

**消防人**员之特殊防护设备:

Special Protection Equipment: Respiratory protection: Respiratory equipment of a gas cylinder style or protection-against-dust mask

Hand protection: Protective gloves

Eye protection: Goggle or protective glasses designed to protect against liquid splashes

Skin and body protection: Protective cloth

# **六:泄漏**处理方法:

#### VI. Accidental Release Measures

	Remove spilled materials with protective equipment (protective glasses and protective gloves). Do not inhale the gas as much as possible. Moreover, avoid touching with as much as possible
环境注意事项: Environmental Protection:	Do not throw out into the environment.
清理方法:Methods for Cleaning up:	The spilled solids are put into a container. The leaked place is wiped off with dry cloth.

# **七、安全**处置与储存方法:

#### VII. Handling and Storage

处置 Handling	Do not wet the battery with water, seawater, drink or acid; or expose to strong oxidizer.  Do not damage or remove the external tube.  Keep the battery away from heat and fire.  Do not disassemble or reconstruct the battery; or solder the battery directly.  Do not give a mechanical shock or deform.  Do not use unauthorized charger or other charging method. Terminate charging when the charging process doesn't end within specified time.
	Do not store the battery with water, seawater, strong acid or strong oxidizer. Avoid direct sunlight, high temperature, and high humidity.

# 八、暴露预防措施:

# VIII. Exposure Control / Personal Protection

控制参数 Control Factor	ACGIH has not been mentioned control parameter of electrolyte	
个人防护设备 (接触该物质之人	<b>呼吸防</b> 护: Respiratory Protection:	通风 Ventilating
最高である。	手部防护: Hand Protection:	防护手套 Wear gloves
the personnel who are exposed to the material)	眼部防护: Eye Protection:	None
	皮肤及身体防护: Skin & Body Protection:	防护服 Wear protective clothing.
<b>防</b> 护措施 Protective measures	工作时不得进食、饮水、吸烟 Eating, drinking and smoking are not allowed during working.	

# **九、物理及化学性**质(基本资料应填写清楚):

IX. Physical and Chemical Properties / Characteristics (Fundamental information should be filled outclearly)

<b>物</b> 质状态:固体	形状:长方体
Appearance : Solid	Form: cuboid
颜色:绿色/ <b>黑色</b>	气味:特殊气味基本无
Color: Green/Black	Odor: Without special odor
分解温度:450°C	燃烧性:V−0
Decomposition Temperature: 450°C for housing	Combustibility: V-0 for housing
使用温度:100度以下	水中溶解度:不溶
Use temperature: above 100 degree C,	Solubility in Water: Insoluble

密度:	<b>危</b> 险副产品:无
Specific Gravity:None	Hazardous by-product: None

# **十、安定性及反**应性:

# X. Stability and Reactivity

安定性 Stability	Stable under normal use
特殊情况下可能之危害反应 Special Conditions of Hazardous Reaction	None
应避免之状况 Conditions to Avoid	Prevent static during processing, high humidity
应避免之物质 Incompatibility	Conductive materials, water, seawater, strong oxidizers and strong acids
危害分解物 Hazardous Decomposition Products	Acrid or harmful gas is emitted during fire.

#### 十一、毒性资料(如该物品属毒性物质·则应填写):

# XI. Toxicological Information (fill out this part if it is toxicological material)

毒性 Toxicity	LD50, oral - Rat 2,000mg/kg or more   Irritating nature: Irritative to skin and eye
<b>慢毒性成</b> 长期毒性 Chronic	None
特殊效应 Exceptional Effect	None

# **十二、生**态资料:

#### XII. Ecological Information

#### 可能之环境影响/环境流布:

Since a battery cell and the internal materials remain in the environment, do not bury or throw out into

#### 十三、废弃处置方法:

## XIII. Disposal Information

# 废弃处置方法:

Disposal information: Specified collection or disposal of lithium ion battery is required by the law like as "battery control law" in several nations. Collection or recycle of the battery is mainly imposed on battery's manufacturer or

importer in the nations recycle is required.

## 十四、运送资料:

## XIV. Transport Information

	Worldwide, air transportation:	
国际运送规定 International	IATA-DGR packing instructions "965 - section IA"  When batteries are packaged with equipments, refer to packing instructions "966 - section I"  When batteries are contained in equipments, refer to packing instructions "967 - section I" + special provision "A48"  Worldwide, sea transportation:  IMO-IMDG Code packing instructions "P903"	
<b>国内运送</b> 规定 Internal Transport Regulation	No special request.	
120)	In the case of transportation, avoid exposure to high temperature and prevent the formation of anycondensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo pilesand wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting ona cell. Please refer to Section 7-HANDLING AND STORAGE also.	

# **十五、法**规资料:

# XV. Regulation Information

# **适用法**规:

Applicable Regulation:1.US Department of Transportation 49 Code of Federal Regulations [USA]
Dangerous Goods Regulations – 54th Edition Effective 1 January 2013: International Air Transport
Association (IATA)

# **十六、其他**资料

## XVI. Other Information

Reference		
<b>制表</b> 单位元 Reporting entity	名称:实验室 Name: lab department	
	地址:常州市钟楼区经济开发区星港路65-6号 Add: N0.65-6 XinggangRoad.ZhonglouEconomicDevelop,ent Zone.Changzhou,Jiangsu,China 0519-88065051	
	<b>蒋磊</b> jianglei	姓名 (盖章) Name (seal)
1	2015-06-25 Jun. 25, 2015	