



MSDS Product Name: McNair Li-Polymer Battery

MATERIAL SAFETY DATA SHEET

Date of Preparation: 30/3/2006 Page 1

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:McNair Li-Polymer Rechargeable BatteryModel:Prismatic Type cellsChemical System:Li-Polymer

Manufacturer/Supplier: McNair Technology Co., Ltd. For other information or to request an MSDS, call (86) 769 83197555

ADD: Shuiping Industrial Estate, Dalang Town, Dongguan City, Guangdong Province,

P.R.China.						
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 Tel: (86)769 83197555;
 Fax: (86) 769 83195372

 Website: www.mcnair-tech.com
 Email: pub@mcnair-tech.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight %	Component	CAS Registry No.	PEL	TLV
40	Lithium Cobaltate (LiCoO2)	12190-79-3	None Established	None Established
30	Graphite(C)	7782-42-5	2.5mg/m ² (as dust)	2.5mg/m ² (as dust)
10	Organic Solvent	not applicable	None Established	None Established
5	Lithium Salt	not applicable	None Established	None Established
5	Polyvinylidene Fluoride (PVDF)	24937-79-8	None Established	None Established
5	Auminium Case	not applicable	None Established	None Established
5	Plastic	not applicable	None Established	None Established
0	Lithium	not applicable	None Established	None Established

Weight % listed is based on approximate percent of the average weight of the battery The components in this section may only represent a hazard if the integrity of the battery is compromised. The aggregate lithium-equivalent content is not more than 4g.

The information and recommendation set forth are made in good faith and believed to be accurate as of the date of preparation. McNairTechnology Co., Ltd makes nowarranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it. 3. Physical Data Specific Gravity (H₂O=1) LiCoO2 4.95 Graphite:2.09-2.2 Melting Point(°C): LiCoO2 about 1130°C Appearance and odor: LiCoO2 is a black, odorless powder. Organic solvent is a colorless or light yellow liquid Lithium salt is a white, crystalline and odorless powder.
4. Fire and Explosion Hazard Data

Extinguishing Media: Water

Flammable Limits: Not available

Special Fire Fighting Procedure: In case of fire in an adjacent area, use water,CO₂ or dry chemical extinguishers if cells are packed in their original containers since the fuel of the fire is basically paper products. For bulk quantities of unpacked cells use LITH-X(Graphite Base) in this case, do not use water.

5. Reactivity DataStability:StableConditions to Avoid:Do not heat disassemble or overcharge.Hazardous Decomposition or By- products: N/AHazardous polymerization will not occur.

6. Health Hazard Data

Routes of Entry: Inhalation Yes

Skin Yes

Ingestion Yes

Health Hazards(Acute and Chronic)

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is an acute exposure when the gas release vent works. Organic solvent has slight toxicity and can irritate skin and eyes, Lithium salt is irritating to skin, eyes and mucous membranes and should be avoided.

Carcinogeni city:

NTP None IARC Monograph: None OSHA Regulated: None Medical Conditions Generally Aggravated by Exposure:

An acute exposure will not aggravate any medical condition. Emergency and First Aid Procedures:

In case of skin contact with contents of battery, flush immediately with water. For eye contact, flush with copious amounts of water for 15 minutes. Do not inhale leaked material. If irritation persists, get medical help.

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7. Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

- The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.
- Waste Disposal Method:
 - Dispose in accordance with appropriate regulations. Open cells should be treated as hazardous waste.

Precautions to be Taken in Handing and storing:

Avoid mechanical or electrical abuse.

Other Precautions:

Batteries may explode or cause buns, if disassembled ,crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

8. Control Measure

Respiratory Protection (Specify Type):Not necessary under conditions of normal use.Ventilation:Not necessary under conditions of normal use.Protective Gloves:Not necessary under conditions of normal use.Eye Protection:Not necessary under conditions of normal use.Other Protective Clothing or Equipment: Not necessary under conditions of normal use.

9. Recycling and Disposal

McNair encourages batteries recycling. Li-Polymer batteries are safe for disposal in the normal municipal waste stream since they not defined by the federal government as hazardous waste. However, li-Polymer batteries are recyclable.

DO NOT INCINERATE or subject battery cells to temperatures in excess of 212°F.Such treatment can cause cell rupture.

10. Transportation

McNair Li-Polymer batteries comply with all applicable shipping regulations as prescribed by industry and legal standard which includes compliance with the UN Recommendation on the Transport of Dangerous Goods; IATA Dangerous Goods Regulations, 44th Edition, 2003, Special Provision A45, and applicable U.S. DOT regulations for the safe transport of Li-Polymer batteries .Formoretransportation information regarding this product call the McNair Worldwide Transportation Hot Line: (86) 769-3197555 between 8 a.m. and 5 p.m. (Eastern Standard Time), Monday through Friday.

End.

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