

**SECTION 1: IDENTIFICATION**

**1.1 Product identifier**

<b>Product name:</b>	Rechargeable Li-ion Mobile Power
<b>Other names:</b>	Not available.
<b>Model Numbers:</b>	MXXYY-ZZ where (XX is the battery size in WH and is less than 20, YY is the color, and ZZ is the location, North America if no ZZ).
<b>Product type:</b>	Solid

**1.2 Relevant identified uses of the substances or mixture and uses advised against**

Not available.

**1.3 Details of the supplier of the safety data sheet**

<b>Supplier/Manufacturer:</b>	Schneider Electric IT USA (formerly APC by Schneider Electric, APC Sales and Service Corp.)
<b>Address:</b>	132 Fairgrounds Road West Kingston, RI 02892
<b>Telephone:</b>	800-788-2208 or 401-789-5735
<b>E-mail:</b>	<a href="http://nam-en.apc.com/app/ask">http://nam-en.apc.com/app/ask</a>
<b>Site web:</b>	www.APC.com
<b>Telecopy:</b>	Not available.

**1.4 Emergency telephone number (24-hour)**

800-788-2208

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Product definition: Mixture

**Classification according to regulation (EC) No. 1272/2008 [CLP/GHS]**

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

Signal Word: No signal word

Hazard Statements: None known significant effects or critical hazards.

**Precautionary statements**

<b>Prevention:</b>	Not applicable
<b>Response</b>	Not applicable
<b>Storage</b>	Not applicable
<b>Disposal</b>	Not applicable
<b>Supplemental label elements</b>	Not applicable
<b>Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	Not applicable

**Special packaging requirements**

<b>Containers to be fitted with child-resistant fastenings</b>	Not applicable
<b>Tactile warning of danger</b>	Not applicable

## 2.3 Other hazards

Other hazards which do not result in classification:

None known

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures:

Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008[CLP]	Type
Graphite, synthetic	EC: 231-955-3 CAS: 7782-42-5	≥10 - <25	Not classified.	[2]
Aluminium	EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≥5 - <10	Flam. Sol. 1, H228 Water-react. 2, H261	[2]
Copper	EC: 231-159-6 CAS: 7440-50-8	≥5 - <10	Not classified.	[2]

This battery pack is an article pursuant to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010, is not subject to REACH regulation. The information contained in this Safety Data Sheet contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Eye contact</b>	Contact with the contents of an opened cell can cause burns. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	If contents of an opened cell are inhaled, remove source of contamination or move victim to fresh air. Get medical attention if symptoms occur.
<b>Skin contact</b>	Contact with the contents of an opened cell can cause burns. Flush contaminated skin with plenty of water. Get medical attention if symptoms occur
<b>Ingestion</b>	Contact with the contents of an opened cell can cause burns. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	No known significant effects or critical hazards.

## 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
<b>Specific treatments</b>	No specific treatment

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	Lithium ion batteries contain flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (> 150 °C (302 °F)), when damaged or abused (e.g., mechanical damage or electrical overcharge). Burning cells can ignite other batteries in close proximity.
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: Carbon dioxide Carbon monoxide Halogenated compounds Metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	No special measures are required.
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
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<b>For emergency responders</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
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## 6.2 Environmental precautions

<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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## 6.3 Methods and materials for containment and cleaning up

<b>Spill</b>	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
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## 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store battery pack in a dry location. Keep at room temperature (25°C +/- 5°C). Elevated temperatures can result in shortened cell life.

### 7.3 Specific end use(s)

<b>Recommendations</b>	Not available.
<b>Industrial sector specific solutions</b>	Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

	<b>Result</b>	<b>NIOSH</b>	<b>OSHA</b>
Graphite, synthetic	TWAs	TWA 2.5 mg/m <sup>3</sup> (resp)	Not established
Aluminium	TWAs	TWA 10 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp)	TWA 15 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp)
Copper (7440-50-8)	TWAs	1 mg/m <sup>3</sup> TWA (dust and mist); 0.1 mg/m <sup>3</sup> TWA (fume)	0.1 mg/m <sup>3</sup> TWA (fume); 1 mg/m <sup>3</sup> TWA (dust and mist)

### Key to abbreviations

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

<b>Recommended monitoring procedures</b>	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available.

### 8.2 Exposure controls

<b>Appropriate engineering controls</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants
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### Individual protection measures

<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Eye/face protection</b>	Not required under normal conditions of use. Wear safety glasses if handling an open or leaking cell

### Skin protection

<b>Hand protection</b>	Not required under normal conditions of use. Wear neoprene or natural rubber gloves if handling an open or leaking cell.
<b>Body protection</b>	Not required under normal conditions of use.
<b>Other skin protection</b>	Not required under normal conditions of use.
<b>Respiratory protection</b>	Not required under normal conditions of use.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	Solid. [Cell.]
Color	Multicolor.
Odor	Odorless.
Odor threshold	Not applicable.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Closed cup: Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower explosive limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not available.
Solubility(ies)	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

#### 9.2 Other information

No additional information.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	No specific data.
<b>10.5 Incompatible materials</b>	Reactive or incompatible with the following materials: oxidising materials, acids and alkalis.
<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity	There is no data available.
Irritation/Corrosion	There is no data available.
Sensitization	There is no data available.
Mutagenicity	There is no data available.
Carcinogenicity	There is no data available.
Reproductive toxicity	There is no data available.
Teratogenicity	There is no data available.
Specific target organ toxicity (single exposure)	There is no data available.
Specific target organ toxicity (repeated exposure)	There is no data available.
Aspiration hazard	There is no data available.

Information on the likely routes of exposure: Dermal contact, Eye contact, Inhalation, Ingestion

### Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects	No known significant effects or critical hazards.
Potential delayed effects	No known significant effects or critical hazards.

#### Long term exposure

Potential immediate effects	No known significant effects or critical hazards.
Potential delayed effects	No known significant effects or critical hazards.

### Potential chronic health effects

General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

### Other information

Not available.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	There is no data available.
<b>12.2 Persistence and degradability</b>	There is no data available.
<b>12.3 Bioaccumulative potential</b>	There is no data available.

### 12.4 Mobility in soil

<b>Soil/water partition coefficient (K<sub>oc</sub>)</b>	No data available.
<b>Mobility</b>	Not available.

### 12.5 Results of PBT and vPvB assessment

<b>PBT</b>	Not applicable.
<b>vPvB</b>	Not applicable.

### 12.6 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product





<b>Methods of disposal</b>	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
<b>Hazardous waste</b>	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### Packaging

<b>Methods of disposal</b>	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
<b>Special precautions</b>	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.



## SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA
<b>14.1</b> UN number	UN3481	UN3481	UN3481	UN3481
<b>14.2</b> UN proper shipping name	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries)	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries)	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries)	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries)
<b>14.3</b> Transport hazard class(es)	9 	9 	9 	9 
<b>14.4</b> Packing group	II	II	II	II
<b>14.5</b> Environmental hazards	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.

<b>14.6 Special precautions for user</b>	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.

## SECTION 15: REGULATORY INFORMATION

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

#### EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances subject to authorization

<b>Annex XIV</b>	None of the components are listed.
<b>Substances of very high concern</b>	None of the components are listed.

#### Annex XVII – Restrictions on the manufacture placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

## Other EU regulations

Europe inventory	Not determined.
Integrated pollution prevention and control list (IPPC) - Air	Listed.
Integrated pollution prevention and control list (IPPC) - Water	Listed.

## Seveso Directive

This product is not controlled under the Seveso Directive.

## 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: OTHER INFORMATION

Review date: November, 2<sup>nd</sup>, 2015

Version: 1

<u>Abbreviations and acronyms:</u>	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

<b>Full text of abbreviated H statements:</b>	H228 H261	Flammable solid. In contact with water releases flammable gases.
<b>Full text of classifications [CLP/GHS]:</b>	Flam. Sol. 1, H228 Water-react. 2, H261	FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2

### Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.