



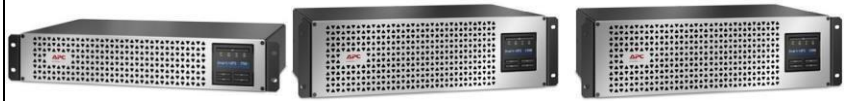
LI-ION BATTERY PACK Contained in Equipment (SMTL750RM2UC, SMTL1000RM2UC, SMTL1500RM3UC) SAFETY DATA SHEET

Version: 1.9

Review date: February 6, 2024

SECTION 1: IDENTIFICATION

Product identifier:

Product name:	LI-ION BATTERY PACK CONTAINED IN EQUIPMENT (SMTL750RM2UC, SMTL1000RM2UC, SMTL1500RM3UC)
Other names:	APC Smart-UPS Li-Ion, Short Depth 1500VA, 1000VA and 750VA, 120V with SmartConnect, 76.8 WH Li-ion Batteries Contained In Equipment
Model Numbers:	SMTL750RM2UC, SMTL1000RM2UC, SMTL1500RM3UC
Country:	EU
Product type:	Solid
Picture: SMTL750RM2UC, SMTL1000RM2UC, SMTL1500RM3UC	

Identified uses

Lithium-Ion battery pack contained in APC by Schneider Electric Uninterruptible Power Supplies

Manufacturer

Supplier/Manufacturer:	Schneider Electric IT USA (formerly APC by Schneider Electric, APC Sales and Service Corp.)
Address:	70 Mechanic St Foxboro, MA 02035 United States
Telephone:	+1 800-788-2208 or +1 401-789-5735
E-mail:	http://nam-en.apc.com/app/ask
Website:	www.APC.com
Telecopy:	Not available.

Emergency telephone number (with hours of operation)

For all Service, Technical Support and Emergency Inquires.
800-255-3924 USA and 1-813-248-0585 International

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SECTION 2: HAZARDS IDENTIFICATION

The rechargeable Li-ion battery cells described in this Safety Data Sheet are sealed units which are not hazardous when used according to the manufacturer's recommendations. Risk of exposure only occurs if the battery cell is mechanically, thermally, or electrically abused and the enclosure is compromised.

Classification of the substance or mixture

This product is considered as a manufactured article, and not classified as hazardous according to EC 1272/2008

Label Elements

Pictograms Not applicable
Signal word Not applicable
Hazard Statement Not classified.
Precautionary statements Not classified.

Other hazards

The chemicals are contained in a sealed enclosure. Risk of exposure occurs only if the cell or pack is mechanically, thermally, electrically, or physically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by inhalation, ingestion, eye contact and skin contact.

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

CAS number/other identifiers

Ingredient name	Identifiers	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lithium Iron Phosphate (LiFePO ₄)	CAS: 15365-14-7 EC number 604-917-2	18	Not classified
Carbon	CAS: 7440-44-0 EC number- 231-153-3	5	Eye Irrit. 2, STOT SE 3
Aluminum Metal	CAS: 7429-90-5 EC number 640-421-2	6	Not classified
Copper Metal	CAS: 7440-50-8	9	Not classified

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	EC number 231-159-6		
Iron	CAS: 7439-89-6 EC number 231-096-4	8	Not classified
Lithium Hexafluorophosphate (LiPF6)	CAS: 21324-40-3 EC number 244-334-7	2	Acute Tox. 3(Oral); Skin Corr. 1A; Eye Dam. 1; STOT RE 1
Organic Carbonate	-	14	Not available
Nikel, Plastic, PVDF, Others	-	8	Not available

Further Information

Because of the cell structure the dangerous ingredients will not be available if used properly

Mercury content: Hg < 0.1mg/kg

Cadmium content: Cd < 1mg/kg

Lead content: Pb < 10mg/kg

SECTION 4: FIRST AID MEASURES

General information

The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing.

Undamaged, closed cells do not represent a danger to the health.

Description of necessary first aid measures

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.
Inhalation	Ensure of fresh air. Consult a physician.
Skin contact	In case of contact with skin wash off immediately with plenty of water. Consult a physician.
Ingestion	Drink plenty of water. Call a physician immediately.

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Most important symptoms/effects, acute and delayed

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.

Over-exposure signs/symptoms

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.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	none
Specific treatments	No specific treatment
Protection of first aiders	No action shall be taken involving any personal risk or without suitable training

See toxicological information (Section 11)

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	Cold water and dry powder in large amount are applicable. Use metal fire extinction powder or dry sand if only few cells are involved.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	May form hydrofluoric acid if electrolyte comes into contact with water.
Hazards thermal decomposition products	In case of fire, the formation of the following flue gases cannot be excluded: Hydrogen fluoride (HF), Carbon monoxide and carbon dioxide.

Special protective actions for fire-fighters	If possible, remove cell(s) from firefighting area. If heated above 125°C, cell(s) can explode/vent. Cell is not flammable but internal organic material will burn if the cell is incinerated.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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).

For non-emergency personnel	Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas.
For emergency responders	Take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions	Do not discharge into the drains/surface waters/groundwater.

Methods and materials for containment and cleaning up

Pick up and send for disposal. Note that the battery pack may contain a charge a

Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on safe handling	Avoid short circuiting the cell. Avoid mechanical damage of the cell. Do not open or disassemble. Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition.
Conditions for safe storage, including any incompatibilities	Storage at room temperature at approx. 20°C, 60% of the nominal capacity (OCV approx. 3.6 - 3.9 V). Keep in closed original container.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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.

General

Occupational exposure limits

No exposure limit value known

Recommended monitoring procedures	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

Appropriate engineering controls	No specific precautions necessary.
Environmental exposure controls	No specific precautions necessary.

Individual protection measures

Hygiene measures	When using do not eat, drink or smoke. Wash hands before breaks and after work.
Eye/face protection	No specific precautions necessary.
Hand protection	No specific precautions necessary.
Body protection	No specific precautions necessary.
Other skin protection	No specific precautions necessary.
Respiratory protection	No specific precautions necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Solid.
Color	Various.
Odor	If leaking smells of medical ether.s.
Odor threshold	Not applicable.
pH	Not applicable.
Melting point	Not applicable.
Boiling point	Not applicable.
Flash point	Not applicable unless individual components are exposed.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable unless individual components are exposed
Lower and upper explosive (flammable) limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not applicable unless individual components are exposed
Solubility in water	Insoluble.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable unless individual components are exposed
Viscosity	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Hazardous reactions will not occur.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Do not puncture, crush or incinerate.
Incompatible materials	No materials to be especially mentioned.
Hazardous decomposition products	In case of open cells, there is the possibility of hydrofluoric acid and carbon monoxide release.
Additional information	No decomposition if stored and applied as directed.

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SECTION 11: TOXICOLOGICAL INFORMATION

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.

Numerical measures of toxicity

Acute toxicity estimates: There is no data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	There is no data available.
Persistence and degradability	There is no data available.
Bio accumulative potential	There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{oc})	No data available.
Other adverse effects	No known significant effects or critical hazards.

Further information

Ecological injuries are not known or expected under normal use. Do not flush into surface water or sanitary sewer system.

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. Consult local recycling or disposal service providers for further information.

13.1 Advice on disposal

Product

Methods of disposal	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.
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Hazardous waste	This product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
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Packaging




Methods of disposal	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.
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SECTION 14: TRANSPORT INFORMATION

- The battery pack meets the requirements of the test in the United Nations (UN) Manual of Tests and Criteria, Part III, subsection 38.3. UN38.3 Test Report Summary is available upon request.
- Original packaging is strong rigid outer packaging appropriate to its capacity and intended use. The packaging is UN specification.
- The International Maritime Dangerous Goods (IMDG) Code (Edition 2020, Special Provision, 230, 348, 384, Packing Instruction P903 is applied.)
- The battery pack must not be packed in the same outer packaging, or placed in an overpack with, dangerous goods classified in Class 1 (except 1.4S), Division 2.1 (flammable gases), Class 3 (flammable liquids), Division 4.1 (flammable solids) and Division 5.1 (oxidizers).

The following provides information to trained and certified individuals to support proper shipping of this item.

Product	Power (Wh)	Weight
SMTL750RM2UC	153.6	15.4 kg (1.3 kg is the Lithium battery weight)
SMTL1000RM2UC	230.4	16.3 kg (1.9 kg is the Lithium battery weight)
SMTL1500RM3UC	307.2	19.5 kg (2.5 kg is the Lithium battery weight)

	ADR/US DOT	TDG	IMDG
UN number	UN3480	UN3480	UN3480
UN proper shipping name	LITHIUM-ION BATTERIES	LITHIUM-ION BATTERIES	LITHIUM-ION BATTERIES
Transport hazard class	9	9	9
Transport hazard Label			

Environmental Hazards	None	None	None
Additional information	<p>HAZMAT Bill of Lading (BOL) required via ground or rail; Provide emergency response information by including this Safety Data sheet.</p> <p>If shipped via ground in the USA, an acceptable alternative is to write "ERG 147" on the Bill of Lading.</p>	Declaration of Dangerous Goods (DGD) is required.	Declaration of Dangerous Goods (DGD) is required.
<p>Note: This product is not for Air transport</p> <p>Overall battery > 100 Wh (76.8 Wh each) Net weight of lithium battery per piece of equipment (per box) SMTL750RM2UC = 1.3 kg x Each emulator battery less than 100 Wh SMTL1000RM2UC = 1.9 kg x Each emulator battery less than 100 Wh SMTL1500RM3UC = 2.5 Kg x Each emulator battery less than 100 Wh</p>			

Special precautions for user	Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

SECTION 15: REGULATORY INFORMATION

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

EC Classification for the Substance/Preparation	<p>These products are not classified as hazardous according to Regulation (EC) No. 1272/2008.</p> <p>Keep out of reach of children</p>
EU Regulations:	<p>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I: Not listed.</p> <p>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II: Not listed.</p>

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	<p>Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended: Not listed.</p> <p>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended: Not listed.</p> <p>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended: Not listed.</p> <p>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended: Not listed.</p> <p>Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended: Not listed.</p> <p>Regulation (EC) No. 166/2006, REACH Article 59(10) Candidate List as currently published by ECHA: Not listed.</p>
EU Authorizations:	Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended: Not listed
EU Restrictions on use:	Regulation (EC) No. 1907/2006, REACH Annex XVII Directive 2004/37/EC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding: Not listed
Other EU Regulations	<p>Directive 96/82/EC (Seveso II) on the control of major accident hazards involving dangerous substances: Not listed.</p> <p>Directive 94/33/EC on the protection of young people at work: Not listed.</p> <p>This Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006</p>
U.S. Federal regulations	<p>TSCA Status: All ingredients in these products are listed on the TSCA inventory.</p> <p>OSHA: These products do not meet criteria as per Part 1910.1200, manufactured article.</p> <p>SARA EPA Title III: None. Sec. 302/304: None. Sec. 311/312: None. Sec. 313: None.</p> <p>CERCLA RQ: None.</p>

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER INFORMATION

Original release date: November 1st, 2017

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This file is only effective for the UPS SMTL750RM2UC, SMTL750RMI2UC, SMTL750RM2UCNC, SMTL1000RM2UC,

SMTL1000RMI2UC, SMTL1000RM2UCNC, SMTL1500RMI3UC, SMTL1500RM3UC and SMTL1500RM3UCNC, provided by commissioner Schneider Electric IT Corporation, which is manufactured by Schneider Electric IT USA, Schneider Electric IT Corp. The commissioner provides the composition information of batteries and promises its integrity and accuracy. Users should read this file carefully and use the batteries in correct method. Schneider Electric doesn't assume responsibility for any damage or loss because of misuse of batteries and UPS'

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.

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