



# SAFETY DATA SHEET DENTAL CURING LIGHTS RECHARGABLE BATTERIES

1.1. Product identifier	Patton, Model No	Naminal	Tunical Canacity	Moight	Dimensions
Replacement Part No.	Battery Model No.	Nominal Voltage	Typical Capacity	Weight	Dimensions
C01/2-1	NCM18650 2600mAh	3.6V	2600mAh, 9.36Wh	46.5g	Ф18.5mm×69.0mm
C01/2-M-1	NCM14500 850mAh	3.6V	850mAh, 3.06Wh	22.5g	Ф14.2mm×53.0mm
Name	Premium Plus Dental Curing I	Light Batteries			
Description	Rechargeable Li-ion Battery f	or use in Prem	ium Plus Dental Curing Lig	hts	
1.2. Relevant identified uses of the sul	stance or mixture and uses advi	ised against			
Product Use	Rechargeable Li-ion Battery f	or use in Prem	ium Plus Dental Curing Lig	hts	
1.3. Details of the supplier of the mate	rial safety data sheet				
Manufacturer	Premium Plus International L	.td.	EU Representative	Premium Plus	Poland sp. z o.o.
	1001, Yuen Long Trading Cen	itre		ul. Bukowska 2	27
	No. 33, Wang Yip Street Wes	t		62-081 Wysog	otowo
	Yuen Long, N.T.			Poland	
	Hong Kong		UK Representative	Premium Plus	
				Bournemouth,	on Heath Industrial Estate,
				BH11 8NE	Dorset
				UK	
Testing Laboratory	Shenzhen NCT Testing Techn	ology Co., Ltd.	Report No.	NCT20048891	XM1-1
	1 / F, No. B Building, Miansha	ang Younger		NCT20048889	XM1-1
	Pioneer Park, Hangcheng Roa	•			
	Xixiang Street, Baoan District	, Shenzhen,			
	Guangdong, China (POLAND) regulatory@premi				
Email	(UK) regulatory@premiumple				
	(OK) regulatory@premiampi				
1.4. Emergency telephone number					
1.4. Emergency telephone number	(POLAND) +48 61 880 10 94				
1.4. Emergency telephone number Telephone	(POLAND) +48 61 880 10 94 (UK) +44 (0) 1202 611 011				
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Telephone	, ,				
Telephone SECTION 2: Hazards identification	(UK) +44 (0) 1202 611 011				
Telephone	(UK) +44 (0) 1202 611 011		mantle, open or shred the	battery ingredier	nts contained within or their
Telephone SECTION 2: Hazards identification	(UK) +44 (0) 1202 611 011	use. Do not disi	nantle, open or shred the	battery ingredier	nts contained within or their
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based on Report No.: NC120040051XW11-1/ NC120040

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

N/A

### 3.2. Mixtures

Chemical Name	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide	35-38	12190-79-3
Graphite	20-22	7782-42-5
Copper	9-10	7440-50-8
Aluminium	5-6	7429-90-5
Ethylene carbonate	14-16	96-49-1
Polypropylene	5-6	9003-07-0
Carbonate, methyl ethyl	4-5	623-53-0
Phosphate(1-), hexafluoro-, lithium	5-6	21324-40-3

NOTE: CAS number is Chemical Abstract Service Registry Number

N/A = Not Applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
Inhalation	Remove source of contamination or move victim to fresh air. Obtain medical advice.	
Eye contact	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.	
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.	
Ingestion	Please rinse mouth thoroughly with water. Induce vomiting under the guidance of professional personage. Please seek medical treatment in time.	
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
	Please use water, dry sand and other proper fire	e extinguishing media.
5.2. Special hazards arising from the su	ubstance or mixture	
	Toxic fumes, gases or vapours may evolve on but Hazardous combustion products: Carbon mono	urning. oxide, carbon dioxide, lithium oxide fumes and so on.
5.3. Advise for firefighters	<u> </u>	
	Toxic fumes, gases or vapours may evolve on bu suits.	urning. The firemen should put on gas masks and full fire-fighting
SECTION 6: Accidental release measur	es	
6.1. Personal precautions, protective $\epsilon$	equipment and emergency procedures	
	Restrict access to area until completion of clear protective equipment as indicated in Section 8.	n-up. Do not touch the spilled material. Wear adequate personal
6.2. Environmental precautions	<u> </u>	
	Prevent material from contaminating soil and fr	rom entering sewers or waterways.
6.3. Methods and material for contain	ment and cleaning up	
	Stop the leak if safe to do so. Contain the spiller	d liquid with dry sand or earth. Clean up spills immediately.
6.4. Reference to other sections		
	acceptable waste container. Collect all contami	(dry sand or earth). Scoop contaminated absorbent into an nated absorbent and dispose of according to directions in Section 1 ct all contaminated wash water for proper disposal.
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
	Don't handing the batteries in manner that allo	ws terminals to short circuit. Do not open, disassemble, crush or
	burn battery.	
7.2. Conditions for safe storage, includ	ling any incompatibilities	
7.2. Conditions for safe storage, includ	ling any incompatibilities  If the battery is subject to storage for such a lor	ng term as more than 3 months, it is recommended to recharge the
7.2. Conditions for safe storage, includ	ling any incompatibilities  If the battery is subject to storage for such a lor battery periodically.	
7.2. Conditions for safe storage, includ	ling any incompatibilities  If the battery is subject to storage for such a lor battery periodically.  C01/2-1 (NCM18650 2600mAh)	C01/2-M-1 (NCM14500 850mAh)
7.2. Conditions for safe storage, includ	ling any incompatibilities  If the battery is subject to storage for such a lor battery periodically.  C01/2-1 (NCM18650 2600mAh)  1 month: -20°C~45°C, 60±25%R.H.	C01/2-M-1 (NCM14500 850mAh)  Less than 1 month: -20°C~60°C.
7.2. Conditions for safe storage, includ	ling any incompatibilities  If the battery is subject to storage for such a lor battery periodically.  C01/2-1 (NCM18650 2600mAh)  1 month: -20°C~45°C, 60±25%R.H. 3 months: -20°C~45°C, 60±25%R.H.	
7.2. Conditions for safe storage, includ	ling any incompatibilities  If the battery is subject to storage for such a lor battery periodically.  C01/2-1 (NCM18650 2600mAh)  1 month: -20°C~45°C, 60±25%R.H.	C01/2-M-1 (NCM14500 850mAh)  Less than 1 month: -20°C~60°C.

1 year: -20°C~20°C, 60±25%R.H.



- Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- Keep out of reach of children.
- Do not expose the battery to heat or fire. Avoid storage in direct sunlight.
- Do not store together with oxidizing and acidic materials.

7.2. Specific end use(s)

Rechargeable Li-ion Battery for use in Premium Plus Dental Curing Lights

SECTION 8: Exposure controls	
8.1. Control parameters	
	No engineering controls are required for handling batteries that have not been damaged. Personal protective equipment's for damaged batteries should include chemical resistant gloves and safety glasses.
8.2. Exposure controls	
Respiratory protection	In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores.  Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use.
Protective Gloves	Not necessary under conditions of normal use.
Other Protective Clothing or Equipment	Not necessary under conditions of normal use.
Other	Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Appearance	Solid	
Colour	Blue	
Odour	Odourless	
рН	No data is available	
Melting point/freezing point	No data is available	
Boiling Point, initial boiling point	No data is available	
Flash point	No data is available	
Upper/lower flammability or explosive limits	No data is available	
Vapor Pressure	No data is available	
Vapor Density (Air = 1)	No data is available	
Density/relative density	No data is available	
Solubility in Water	Insoluble	
n-octanol/water partition coefficient	No data is available	
Auto-ignition temperature	No data is available	
Decomposition temperature	No data is available	
Odout threshold	No data is available	
Evaporation rate	No data is available	
Flammability (soil, gas)	No data is available	
Viscosity	No data is available	
9.2. Other Information		
	N/A	

SECTION 10: Stability and reactivity	
10.1. Reactivity	
	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.
10.2. Chemical stability	
	Stable under normal temperatures and pressures.
10.4. Conditions to avoid	
	Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.
10.6. Hazardous decomposition products	3
	Toxic Fumes, and may form peroxides.

SECTION	11: Toxicologica	linformation

11.1.	Irritation

In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin.



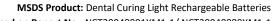


MSDS Product: Dental Curing Light Rechargeable Batteries Based on Report No.: NCT20048891XM1-1/ NCT20048889XM1-1

11.2. Sensitization	
	No data is available
11.3. Reproductive Toxicity	
·	No data is available
11.4. Toxicologically Synergistic Materia	
11.4. Toxicologically Syrieigistic Wateria	No data is available
	INO Udita is available
SECTION 12: Ecological information	
12.1. General Note	
	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
12.2. Anticipated behaviour of a chemic	al product in environment/possible environmental impact/ ecotoxicity
	No data is available
12.3. Mobility in soil	
	No data is available
12.4. Persistence and Degradability	No data is available
12.4. Persistence and Degradability	
	No data is available
SECTION 13: Disposal considerations	
13.1. Waste treatment Methods	
	Recycle or dispose of in accordance with government, state & local regulations.
13.2. Attention for Waste Treatment	
	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature.
	Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.
	[
SECTION 14: Transport information	
·	
14.1. General	This report applies to by sea, by air and by land;
	This report applies to by sea, by all allo by latit,
	The Li-ion Battery (model: C01/2-1 (CNCM18650 2600mAh) and C01/2-M-1 (NCM14500 850mAh)) tested according to the requirements of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" Part III, subsection 38.3;
	The Li-ion Battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;
	The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.
	The package must be handled with care and that a flammability hazard exists if the package is damaged.
14.2. Air – ICAO, IATA	
The Li-ion Battery can be shipped by air in the 2021 IATA Dangerous Goods regulation	n according to Section II/Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of
UN Number	UN3480, UN3481
UN Proper shipping name/Description	Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with
(technical name)	equipment equipment
UN Classification (Transport hazard	Class 9 (PI965 Section IB) or N/A (PI965~967 Section II)
class)	Court of the section is a section in
14.3. Sea - IMDG	ı
UN Proper shipping name/Description	Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with
(technical name)	equipment
UN Classification (Transport hazard	N/A
class)	
Marine pollutant(Y/N)	N/A
Special Provisions	International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 360, 376, 377.
Other	The battery is not restricted according to IMO IMDG Code (inc Amdt 39-18).
- Canon	The sactory is not restricted according to him him bo code (inc Annat 35-10).
CECTION 15. Degulater : information	
SECTION 15: Regulatory information	
15.2. Chemical safety assessment	
	《Dangerous Goods Regulations》
	《Recommendations on the Transport of Dangerous Goods Model Regulations》
	《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

 $\langle\!\!\langle \text{Classification and code of dangerous goods} \rangle\!\!\rangle$  $\langle\!\langle \text{Occupational Safety and Health Act} \rangle\!\rangle$  (OSHA) 《Toxic Substance Control Act》 (TSCA)





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《Consumer Product Safety Act》 (CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《The Oil Pollution Act》(OPA)

《Superfund Amendments and Reauthorization Act Title Ⅲ (302/311/312/313)》 (SARA)

《Resource Conservation and Recovery Act》 (RCRA)

《Safety Drinking Water Act》 (CWA)

《California Proposition 65》

《Code of Federal Regulations》 (CFR)

《EU Battery Directive (2006/66/EC, 2013/56/EU)》

《Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals

In accordance with all Federal, State and local laws.

## SECTION 16: Other information

#### 16.1. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.