

SOP-TRADING (HK) LIMITED
Global Certification Service

MSDS Report

Report No: CMC221205008

Applicant's name	PATONA International S.L.U.
Applicant's Address	Untere Giesswiesen 17, 78247 Hilzingen, Germany Tel: +49 (0) 7731 18 71 88 10, Fax: +49 (0) 7731 18 71 88 98 Email: b2b@patona.de Website: www.patona.eu
Name of Sample	PATONA Platinum Powerstation Autarc 600
Article number	9982
Capacity mAh / Wh	29Ah / 622Wh
Nominal Voltage	21,6V
Weight	6858g
Size	Length: 290mm Wide: 210mm Height: 205mm
Testing laboratory	SOP-TRADING (HK) LIMITED FLAT B5, 1/F MANNING IND. BLDG 116-118 HOW MING STREET KWUN TONG KL, HONGKONG Tel: +85281927952 E-mail: info@sop-trading.com Web: www.sop-trading.com

Hongkong, 05th December 2022

Approved by quality manager:

Cathy Wang

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Section 1- Chemical Product & Company Identification	
Name of Sample	PATONA Platinum Powerstation Autarc 2000
Manufacturer's name	PATONA International S.L.U.
Manufacturer's Address	Untere Giesswiesen 17, 78247 Hilzingen, Germany
Contact Person	Patric Schwärmer
Tel	+49 (0) 7731 18 71 88 10
Emergency Tel	+49 (0) 7731 18 71 88 10
E-mail	b2b@patona.eu
Website	www.patona.eu

Section 2- Hazards Identification	
Classification of Danger	Classification of Danger
Primary Route(s) of Exposure	Eye, skin contact, ingestion.
Health Hazard	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.

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Section 3- Composition / Information on Ingredients		
Chemical Name	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide	15-40	12190-79-3
Graphite	10-30	7782-42-5
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3
Copper	7-13	7440-50-8
Aluminium Foil	5-10	7429-90-5
Nickel	1-5	7440-02-0

Labeling according to EC directives.

No symbol and Hazard phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number:

N/A= Not applicable.

Section 4- First-aid measures	
Eye contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin contact:	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
Inhalation:	Remove from exposure and move to fresh air immediately. Use oxygen if available.
Ingestion:	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

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Section 5- Fire-fighting measures	
Characteristics of Hazard	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Suitable extinguishing Media	Use extinguishing media suitable for the materials that are burning.
Hazardous Combustion Products	Carbon dioxide
Fire-extinguishing Methods and Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Attention in Fire-extinguishing	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6- Accidental Release Measures	
Personal Precautions, protective equipment, and emergency procedures	In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water, collect all contaminated wash water for proper disposal.

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Section 7- Handling and Storage	
Handling	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.
Storage	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children
Other Precautions	In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

Section 8- Exposure Controls/Personal Protection	
Engineering Controls	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m ³ respirable fraction (10mg/m ³ total) should be observed.
Personal Protective Equipment	<p>Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.</p> <p>Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.</p> <p>Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.</p>

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Section 9- Physical and chemical properties	
Physical state	Appearance: Cuboid
	Color: Black
	Odor: If leaking, smells of medical ether.
Change in condition:	
pH, with indication of the concentration	Not applicable as supplied
Flash Point:	Not applicable unless individual components exposed.
Flammability	Not applicable unless individual components exposed.
Relative density:	Not applicable unless individual components exposed.
Solubility (water)	Not applicable unless individual components exposed.
Solubility (other)	Not applicable unless individual components exposed.

Section 10- Stability and Reactivity	
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids, Oxidizing agents, Bases.
Hazardous Decomposition Products	Carbon oxides

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Section 11- Toxicological Information	
<i>Irritation</i>	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
<i>Sensitization</i>	Not available
<i>Reproductive Toxicity</i>	Not available
<i>Toxicologically Synergistic Materials</i>	Not available

Section 12- Ecological Information	
<i>General note:</i>	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system
<i>Anticipated behavior of a chemical product in environment/possible environmental impact/ecotoxicity</i>	Not available

Section 13- Disposal Considerations	
<i>Waste Treatment</i>	Recycle or dispose of in accordance with government, state & local regulations.
<i>Attention for Waste Treatment</i>	Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced, crushed or treated similarly. Best disposal method is recycling.

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Section 14- Transport Information

UN number	UN3480
Proper shipping name	Lithium Ion Batteries (limited to a maximum of 30% SoC)
Label(s) / Placard Required	Miscellaneous Lithium Battery
Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.	
ICAO / IATA:	Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IA appropriate of IATA DGR 63rd (2022 Edition) for transportation.
IMDG CODE:	Shipping may be done in accordance with the IMDG Code 2020 Edition (Amdt 40-20).
DOT:	Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.
ADR /AND:	Transport Requirements for United Nations Economic Commission for Europe (UNECE) ADR/ADN, Applicable as from 1 January 2021.
In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable. Tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria. The batteries should be well protected against short circuits.	

Test results of the UN Recommendation on the Transport of Dangerous Goods

Manual of Test and Criteria (38.3 Lithium battery)			
No.	Test items	Test results	Remarks
T1	Altitude simulation	Pass	-
T2	Thermal test	Pass	-
T3	Vibration	Pass	-
T4	Shock	Pass	-
T5	External short circuit	Pass	-
T6	Impact	Pass	-
T7	Overcharge	Pass	-
T8	Forced discharge	Pass	-

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The following information is provided for domestic and international transportation:

UN Classification (Transport Hazard class)	9
UN Number	UN3480
Packing group:	II
UN Proper shipping name (technical name):	LITHIUM ION BATTERIES
Marine pollutant (Y/N)	N
Label:	Class 9 (Lithium batteries)
Land transportation ADR/RID (cross-broder):	
ADR/RID class:	9 Miscellaneous dangerous substances and articles
Danger code (Kemler):	9
UN Number	UN3480
Packing group:	II
Marine pollutant (Y/N)	N
Label:	Class 9 (Lithium batteries)
Description of goods:	LITHIUM ION BATTERIES
Sea transport IMDG:	
Class or division:	Class 9
UN Number	UN3480
Label:	Class 9 (Lithium batteries)
Packing group:	II
EMS Number:	F-A, S-I
Marine pollutant (Y/N)	N
Propper shipping name:	LITHIUM ION BATTERIES
Air transport ICAO-TI and IATA-DGR:	
Class or division:	Class 9
UN Number	UN3480
Label:	Class 9 (Lithium batteries)
Packing group:	II
Marine pollutant (Y/N)	N
Propper shipping name:	LITHIUM ION BATTERIES

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Section 15- Regulatory Information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (21st revised edition)

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

International Air Transport Association (IATA)

International Maritime Dangerous Goods IMDG Code 2020 Edition (Amdt 40-20).

Technical Instructions for the Safe Transport of Dangerous Goods

Classification and code of dangerous goods (GB 6944-2012)

2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Toxic Substance Control Act (TSCA)

Code of Federal Regulations

In accordance with all Federal, State and local laws

Section 16- Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, SOP-Trading 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.

Hongkong, 05th December 2022

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