Safety Date Sheet

Lithium-ion Battery SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

 Product name :
 Rechargeable Lithium-ion Battery
 29896
 10.8V
 2.61Ah
 28.19Wh

Client:	PROXXON S.A		
Add.of Client:	Härebierg 6-10, LU-6868 Wecker		
Post code	6868	E-mail:	w.weberskirch@proxxon.com
Fax No.:	+352 719 446	Emergency Phone :	+352 719 426 1

SDS Numer

201811210909 SV5EB

SDS date :

2019-5-28

SECTION 2 HAZARDS IDENTIFICATION

The battery has passed the test items of UN model Regulations, Manual of Test and Criteria Section UN 38.3.

Emergency overview:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery SECTION 3 INFORMATION ON INGREDIENTS

	SECTION 3 INFORM	
Product name:	Lithium-ion Battery	
Ingredient	Concentration	CAS NO.
Litihum Nickel Cobalt	36.8	12031-65-1
Oxides (active material) Polyvinyldiene Fluoride (binder)	0.9	24937-79-9
Carbon black (conductive material)	1.8	1333-86-4
Graphite (active material)	20.2	7782-42-5
Styrene-butadiene rubber	0.5	9003-55-8
Carboxymethyl cellulose sodium salt (binder)	0.4	9000-11-7
Ethylen Cabonate (Organic Solvent)	2.5	623-53-0
(Organic Solvent) (Organic Solvent) Lithium	7	616-38-6
hexafluorophosphate	2.6	21324-40-3
(Organic Solvent) Fluoro etyhlene Cabonate (Organic)	1.6	114435-02-8
Aluminum	3.6	7429-90-5
Copper	10.1	7440-50-8
Irone	12	7439-89-6
	SECTION & EIDET	

SECTION 4 FIRST-AID MEASURE

Skin Exposure: If the internal battery materials of an opened cell come into contact with the skin, immediately flush with plenty of water.

Eye Exposure: In case of the internal battery materials in contact with eyes, flush with copious ammounts of water for at least 15 minuters. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure: If inhaled the internal materials of battery ,remove immediately to fressh air and seek medical attention

Oral Exposure: If swallowed the internal materials of battery, do not induce vomiting, seek

immediate medical attetion.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable:Dry chemical, Sandy soil, Carbon dioxide or appropriate foam. Firfighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards:Emit toxic fumes under fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Procedure of personal precaution:

If batteries show signs of leaking, avoide skin or eye contact with the material leaking from the battery Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e.g dry sand, vermiculite) and transfer to sealed container for disposal.

SECTION 7 HANDLING AND STORAGE

Handling:

Keep away from ignithion sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoide mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery srvice life. Avoide reversing battery polarity within the battery assembly. In cse of a battery unintentionally be crushed, rubber glovers must be used to handle all battery components. Avoide contact with eyes, skin. Avoide inhalation. No smoking at working site. Materials to avoide: Strong oxideizing agents.corrosives.

SECTION 8 EXPOSURE CONTROL /PPE

Engineering Control: Use ventilation equipment if available.Safety shower and eye bath.

Personal Protective Equipment:

Respiratory system : Not necessary under conditions of normal use.

Eyes: Not cecessary under conditions of normal use.

Clothing: Wear appropriate protective clothing.

Hand:Safety gloves.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Black Plastic Enclosure
Odor :	Odorless
Melting Point/C° :	>300℃°
Solubility :	Partial soluble in water
	SECTION 10 STBILITY AND REACTIVITY

Stable under normal emperatures and pressures.

Conditionals to avoid:

Stability :

Avoide exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

Materials to avoid: Strong oxidizing agents Corrosives.

Hazardous Polymerizaiton Will not occur

Hazardous Decomposition Products: Metal oxides.Co,CO2

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicity data:	Not available
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Irritation data: :

The internal battery materials may cuse irriation to eyes and skin.

SECTION 12 ECOLOGICAL INFORMATION

NO data available

SECTION 13 DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:

Lithium batteries are best disposed of as a non hazardous waste when fully or mostly discharged. Contact a licensed professinal waste disposal service to dispose of large quantities materials.

SECTION 14 TRANSPORT INFORMATION

This battery sample is Lithium ion/polymer battery, the battery is proved to meet the required tests in the

UN manal of tests and criteria ,Part III Subsection 38.3.

Can be transpoted by air condition according to the packing instruction 965 966 and 967 of IATA DGR 2019 Version relevant regulations.

Can be transported be Sea conditon according to the special provision 188 of IMO IMDG 2019 version relevant regulations.

SECTION 15 REGULATORY INFORMATION

ICAO:

1.Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for cariage on passenger aircrft.

- 2. Unless be approved according to ICAO TI, Lithium ion cells / batteries (UN 3480, PI 965) must be of fered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
- 3. A shipper is not permitted to offer for transport more than one (1) package prepared according to Section II of PI 965 and PI 968 may be placed into an overpack.
- 4. Packages prepared according to Section II of Pi 965 and PI 968 must be offered to the operator separately from other cargo and must not be loarded into a unit load device (ULD) before being offered to the operator.

Section 16 OTHER INFORMATION

Date 2019-5-28 Dept : Quality Dept of PROXXON S.A