Safety Data Sheet				
SDS Format required:	Country format:	EU REACH		
Supplier Information:	Company name:	DAP B.V.		
	Address:	Tussendiepen 4a 9206AD Drachten The Netherlands		
	Tel Number:			
Versuni	Fax number:			
	Email:			
	Website:	www.philip	r com	
	Contact:	www.piiiip	<u>s.com</u>	
Emergency Response Contact:	Emergency Number:			
	Times of			
	operation:			
Product name: as on the label Brand / name	Rechargeable Li-	Rechargeable Li-ion Battery XV1653		
Synonyms:	Lithium-ion Pack	Lithium-ion Pack, Lithium-ion Battery, Li-ion Pack, Li-ion Battery		
Use / Condition of use:	NOTE: Hazard s should not exist to battery leaks, is o or electrically abo SDS are intende	Lithium-ion batteries NOTE: Hazard statement relates to battery contents. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically, physically or electrically abused. SDS are intended for use in the workplace ONLY. For domestic-use products, refer to consumer labels.		
UFI number(s) (EU):	N/A			
	Ingredient Nar	me	CAS Number	Percentage
	Lithium Nickel Ox		12031-65-1 12190-79-3	16,0%
Ingredients in percentage:	Lithium Cobalt D	Lithium Cobalt Dioxide		6,4%
		Lithium Manganate		9,6%
	Graphite			2,0%
		Polyvinylidene Fluoride		4,0%
	Aluminium			12,0%
	Copper Graphite	• • • • • • • • • • • • • • • • • • • •		8,0% 17,0%
		Lithium Hexafluorophosphate		2,0%
		Ethylene Carbonate		4,0%
		Ethyl Methyl Carbonate		7,0%
		Propylene Carbonate		1,0%
	Nickel			2,0%
	Polyethylene			3,0%
		Poly(ethylene terephthalate) 25038-59		6,0%

Physical & chemical properties:  If information is not applicable or not available, please specify with N/A			
Container type E.g. drums/sacks or supplied in bulk)	N/A		
Appearance E.g.: Dark blue liquid with acrid odour	Odorless, solid		
Water miscibility/solubility Will it or wont it mix with water	N/A		
pH pH can help classify chemical products, pH at a percent valuable information. Ie pH @ 1% solution.	entage can also be $ m N/A$		
Flash point Flash point can help classify chemical products	nssify chemical products N/A		
Physical State			
Odour		Partition coefficient n-octanol / water	N/A
Odour threshold		Auto-ignition temperature (°C)	N/A
Melting point / freezing point (°C)		Decomposition temperature (°C)	N/A
Initial boiling point and boiling range (°C)		Viscosity (cSt)	N/A
Evaporation rate		Molecular weight (g/mol)	N/A
Flammability		Taste	N/A
Upper Explosive Limit (%)		Explosive properties	N/A
Relative density (Water = 1)		Oxidising properties	N/A
Nominal Voltage	25,2 V	Surface Tension (dyn/cm or mN/m)	N/A
Rated capacity	2.0 Ah	Total Energy	50,4 Wh

Hazards identification	Health Hazards (Acute and Chronic)	These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided  A shorted lithium battery can cause
	Sign/Symptoms of Exposure	thermal and chemical burns upon contact with the skin. May be a reproductive hazardous.
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 of 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.
Fire Fighting Measures	Flash point	N/A
	Auto-Ignition Temperature	N/A
	Extinguishing Media	Dry powder CO <sub>2</sub>
	Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents
	Hazardous combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes
Accidental Release Measures	Steps to be taken in case Material is Released or Spilled	If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth and dispose of it in a plastic bag and put into a steel can.
	indicital is released of opinion	The preferred response is to leave the area and allow the batteries to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.
	Waste disposal method	It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state and federal requirements. Consult state environmental protection agency and/or federal EPA

	The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.  Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.		
Handling and Storage	Precautions to be taken in handling and storing	Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.	
	Other Precautions	Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.	
Exposure Controls, Personal			
Protection  Respiratory Protection	In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting batteries. Respiratory Protection is not necessary under conditions of normal use.		
Ventilation	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 Protection, Protective Gloves, Protective Clothing and safety glass with side shield.		
Stability and Reactivity	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons		
Stability	Stable		
Conditions to avoid	Heating, mechanical abuse and electrical abuse		
Hazardous Decomposition Products	N/A		
Hazardous Polymerization  Toxicological Information	N/A  Inhalation, skin contact and eye contact are possible when the battery is opened.  Exposure to internal contents, the corrosive fumes will be very irritating to skin, eyes and mucous membranes.  Overexposure can cause symptoms of non-fibrosis lung injury and membrane irritation		
Ecological Information	When promptly used or disposed the battery does not present environmental hazard. When disposed, keep away from water, rain and snow		
Disposal Considerations	Appropriate discharged, hazardous von creation, or battery. The approved sea as a hazard	are still fully charged or only partially they can be considered a reactive waste because of significant amount of not unconsumed lithium remaining in the spent batteries must be neutralized through an econdary treatment facility prior to disposal ous waste. Recycling of battery can be done d facility, through licensed waste carrier.	

Transport Information:	UN3480			
	The battery models listed have a Watt-hour rating of no more than 100Wl And shipment contains no item listed under IATA DGR Special Provision A154 and meets all requirements under UN Manual of Tests and Criteria III, subsection 38.3			
	No ITEMS 1 Altitude simula 2 Thermal test	RESULTS ation Pass Pass	REMARKS Test 1 to 5 must be conducted in	
	3 Vibration 4 Shock 5 External short	Pass Pass	sequence on the same cell or battery	
	6 Impact 7 Overcharge	Pass Pass	Only battery do need this test	
	8 Forced discha	rge Pass	item	
	without damage to cell contents so as to allow	ble of withstanding a 1.2m drop s or batteries contained therein, battery to battery(or cell to cell ackage does not exceed 10kg g	without shifting of the contact and without ross mass.	
Transportation fashion	Air transportation	January 2024)  Packaging complies with the section IB of Packing Instruct Manual of IATA  Hazard Class: Class 9  For Cargo aircraft only, Forbi aircraft, via air shipment SOO	complies with the requirements of f Packing Instructions 965 of 65 <sup>th</sup> DGR ATA es: Class 9 sircraft only, Forbidden in passenger air shipment SOC no more than 30%	
	Sea transportation	According to IMO IMDG CODE (AMEND 41-22)  UN3480, LITHIUM ION BATTERIES The article is not restricted to IMO IMDG (41-22) Code according to special provision 188. More information concerning shipping, testing, marking and packaging can be obtained Label master at <a href="http://www.labelmaster.com">http://www.labelmaster.com</a> . Separate battery when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain		
	Land transportation	According to ADR-2023  UN3480, LITHIUM ION BATTERIES  Hazard Class: Not restricted, according to sp188  Package instruction: Strong package, Packaging i accordance to corresponding requirements of sp188  Separate battery when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and well by rain.		
Regulatory Information	Law information  >  >  >			

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	In accordance with all Federal, State and Local law.
Additional Information	The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material of his particular purpose