



### PRODUCT INFORMATION SAFETY DATA SHEET

# **SECTION 1: Product and Company identification**

Product Name	Rechargeable Li-Ion Battery Pack
Part Number /Model	355983
Battery Pack Rated Voltage	25.2V
Battery Pack Rated Capacity	3600 mAh
Battery Pack Rated Energy	91 Wh

Dyson Technology Limited Tetbury Hill Malmesbury Wiltshire SN16 ORP United Kingdom

Web : <u>www.dyson.com</u> Tel : +44 (0) 800 298 0298

Emergency contact number: +44 (0) 203 394 9857

### **SECTION 2: Hazards identification**

During normal handling and use there is no risk of exposure to materials of concern.

The battery pack contains organic electrolyte which is flammable and may leak from damaged cells. Risk of exposure occurs only if the battery pack is electrically, mechanically or thermally abused.

Vapour from burning batteries may cause respiratory, eye and skin irritation.

Contact with leaking electrolyte may cause irritation and redness of the eyes and skin.

Ingestion of leaking electrolyte may cause irritation of the throat



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

Rechargeable Li-lon Battery Pack model 355983 uses seven Tohuku Murata US21700VTC6A lithium-ion rechargeable cells controlled with a battery management PCB. The cells are connected in a string of 7 cells in series.

Chemical Name	CAS No.	% weight in individual cell
Lithium Nickel Cobalt Oxides (active material)	12031-65-1	36%
Graphite (active material)	7782-42-5	12%
Ethylene Carbonate	96-49-1	1%
Dimethyl Carbonate	616-38-6	6%
Lithium hexafluorophosphate	21324-40-3	2%
Aluminum	7429-90-5	5%
Copper	7440-50-8	24%
Iron	7439-89-6	14%

### **SECTION 4: First aid measures**

In case of inhalation of vapour from a burning battery or contact with or ingestion of leaking electrolyte, actions described below are required.

Inhalation	Move the exposed person to fresh air
Eye contact	Bathe the eye with running water for 15 minutes, if eye irritation
	persists seem medical attention
Skin contact	Wash off immediately with plenty of soap and water
Ingestion	Wash out mouth with water and drink plenty of water

# **SECTION 5: Firefighting measures**

In case of fire, use CO<sub>2</sub>, dry chemical powder extinguishers.

Since irritant and corrosive gas may be produced by battery pack on fire, use self-contained breathing apparatus while extinguishing fire when danger is predicted.

Move batteries to a safer place immediately if a fire breaks out nearby. Use a large amount of water as a supportive measure to cool the exterior of batteries if exposed to fire to prevent rupture.

### **SECTION 6: Accidental release measures**

In the unlikely event that liquid leaks from the battery.

Avoid skin contact.





Use absorbent material (sand, vermiculite, etc.) to absorb any exuded material. Seal leaking battery (unless hot) and contaminated absorbent in a plastic bag and dispose of in accordance with local regulations.

### **SECTION 7: Handling and storage**

### HANDLING:

Use only with the appliance for which it has been designed.

Charge only with charging equipment provided with the appliance.

Do not charge at temperatures below 0°C or above 45°C.

Do not short circuit contacts, disassemble, puncture, crush or dispose of in fire.

#### STORAGE:

Store in a cool, dry place away from sources of ignition and flame.

Do not expose to temperatures below -60 °C or above 100°C.

# **SECTION 8: Exposure controls/personal protection**

During normal handling and use there is no risk of exposure to materials of concern, no personal protective equipment is required.

### **SECTION 9: Physical and chemical properties**

Plastic encased battery pack.

## **SECTION 10: Stability and reactivity**

Not applicable.

### **SECTION 11: Toxicological information**

During normal handling and use there is no risk of exposure to materials of concern.

### **SECTION 12: Ecological information**

During normal handling and use there is no risk of exposure to materials of concern.

# **SECTION 13: Disposal considerations**

Dispose of battery pack in accordance with federal, state and local regulations. Insulate battery pack terminals to prevent accidental short-circuit.



### **SECTION 14: Transportation information**

UN Number: 3480 or 3481

UN Proper Shipping Name: 3480 – Lithium Ion Batteries

3481 – Lithium Ion Batteries Contained in Equipment 3481 – Lithium Ion Batteries Packed with Equipment

Class: 9
Subsidiary Risk: -

Hazard Label: Class 9, Miscellaneous Dangerous Goods or Miscellaneous Lithium

**Batteries** 

Handling Label: Lithium Battery Label & Cargo Aircraft Label

Packing Group: Nil

Lithium ion batteries - Lithium ion batteries in compliance with Section of PI 965.

Lithium ion batteries packed with equipment - Lithium ion batteries in compliance with Section of PI 966.

Lithium ion batteries contained in equipment - Lithium ion batteries in compliance with Section of PI 967

UN 3480, PI 965, Section IA and IB. Lithium ion batteries must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity. Batteries at a SoC of greater than 30% may only be shipped with the approval of the State of Origin and the State of the Operator under the written conditions established by those authorities.

UN 3480, PI 965, Section IA and IB are forbidden for carriage on passenger aircraft. All packages must bear the Cargo Aircraft Only label in addition to the other marks and labels required by the Regulations.

### **SECTION 15: Regulatory information**

Not applicable.

#### **SECTION 16: Other information**

### **Legal Disclaimer**

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