# Thornhill Medical's Dangerous Goods (DG) Battery Shipping Guide

# MOVES® SLC™

# Q: What are the acceptable formats for transporting MOVES SLC batteries?

A: The MOVES SLC System includes two batteries per system. Each battery is 1.25Kg, 130mm x 65mm x 130mm and can be shipped 1) installed in the system 2) placed in the accessory case or 3) alone without the system or the accessory case.



Left: MOVES SLC Accessory Case, Center: MOVES SLC System with Pelican Case, Right: MOVES SLC Batteries/label



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# 1) Shipping batteries installed in the MOVES SLC System - Recommended method

MOVES SLC batteries installed in the system fall under **UN3481**, Class 9, **Lithium ion batteries contained in equipment.** PI967.

NOTE: consult all carrier variations as some may restrict this UN#

Requirements for shipping batteries installed in the MOVES SLC system   UN3481		
Documentation	Must be accompanied by a DGD (dangerous goods declaration) View	
	template, <u>dangerous goods declaration.</u>	
	Shipper and consignee addresses	
	UN3481	
	Lithium ion batteries contained in equipment.	
	Class 9	
	No Packing Group	
	Quantity and type of packaging format – number of identical	
	packages, type and net quantity per. Example. 1 Plastic Box x 2.5 kg	
Packaging	The current MOVES SLC black pelican case meets shipping	
	requirements.	
	Batteries must be at 30% SOC (state of charge) or less.	
	The battery charge status button will confirm SOC. No more than 2	
	LED lights should be illuminated.	
Labeling	Class 9 Battery Label <a href="color: blue;"><a href="color: blue;">download here</a> affixed to the System case</a>	
	Shipper and consignee addresses	
	UN3481	
	Lithium ion batteries contained in equipment	
	Net quantity (if more then 1 non-identical packages is shipped)	

UN3481 Lithium ion batteries contained in equipment Net. Qty. 2.5 kg

**SHIPPER AND CONSIGNEE Addresses** 





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# 2) Shipping batteries in the MOVES SLC accessory case or 3) on their own

MOVES SLC batteries in the accessory case or on their own fall under **UN3480**, Class 9, **Lithium ion batteries.** PI965.

NOTE: consult all carrier variations as some may restrict this UN#

Requirements for shipping batteries in the accessory case or on their own   UN3480		
Documentation	Must be accompanied by a DGD (dangerous goods declaration) View	
	template, dangerous goods declaration.	
	Shipper and consignee addresses	
	UN3480	
	Lithium ion batteries	
	Class 9	
	No Packing Group	
	Quantity and type of packaging format – number of identical	
	packages, type and net quantity per. Example. <b>1 Plastic Box x 2.5 kg</b>	
Packaging	Batteries must be at 30% SOC (state of charge) or less. The battery	
	charge status button will confirm SOC. No more than 2 LED lights	
	should be illuminated.	
	When shipped on their own, MOVES SLC batteries must be enclosed	
	in inner packaging that prevents contact with other batteries and	
	short circuits, using non-conductive material.	
	UN Spec packaging is required.	
Labeling	Class 9 Battery Label <a href="mailto:square"><a href="&lt;/td"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	
	CAO label <a href="mailto:square">download here&gt;</a>	
	Shipper and consignee addresses	
	UN3480	
	Lithium ion batteries	
	Net quantity (if more then 1 non-identical packages is shipped)	

UN3480 Lithium ion batteries Net. Qty. 2.5 kg

**SHIPPER AND CONSIGNEE Addresses** 









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# Q: What are the shipping methods for MOVES SLC with installed batteries (UN3481), MOVES SLC batteries in accessory case (UN3480) or packaged alone?

A: MOVES SLC with batteries, MOVES SLC batteries outside of system can be shipped by air or ground. Depending on the battery classification certain restrictions apply.

# **Air shipments**

- Many airlines have variations whereby they only accept specific UN#'s and battery configurations.
- Only **UN3481** (MOVES® SLC™ batteries in the system), would be allowed to ship PAX (passenger aircraft). PAX limit is 5 kg net weight of batteries per package.
  - Note: CAO may also be the only option for UN3481 depending on carrier variations.
- The only option for **UN3480** (MOVES® SLC™ batteries in Accessory Case or on their own) is CAO (cargo aircraft only). The limit is 35 kg net weight of batteries per package.
  - Must fly CAO (cargo aircraft only). Forbidden for (PAX) (passenger aircraft.)

# Airplane Carry-on or checked luggage.

- MOVES® SLC™ batteries exceed passenger baggage limits
- MOVES® SLC™ System with batteries exceed passenger baggage limits

#### **Ground shipments**

Refer to the packaging requirements for UN3481 and UN3480 in the above sections.

# Q: Are there any differences in shipping destinations for batteries?

A: There are no differences in shipping destinations for batteries between Canada to USA, US to USA, US to Canada, Canada to ROW, and USA to ROW.

However, based on 49 CFR 173.185, the MOVES SLC system may be shipped by ground in accordance with the DG regulations as USA has an exemption for lithium ion batteries under 300Wh. **This is a USA ground only exemption and cannot be used when shipping to any other country.** The following completed label with corresponding UN# must be on each package. UN Spec packaging not required. Packaging must be strong and rigid. MOVES SLC System - UN3481.

MOVES SLC Accessory Case - UN3480



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# MADM™

# Q: What type of battery is included in MADM™?

A: The MADM™ Anesthesia Delivery system includes one built-in rechargeable <u>lithium ion</u> <u>Battery</u>. 3.6V, 30Wh.



Left: MADM Pelican Case Right: MADM system

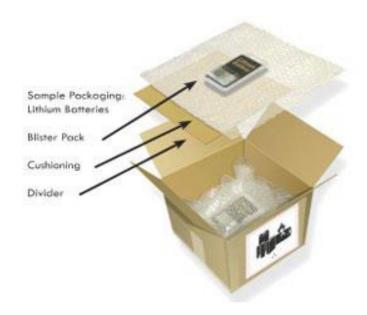


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# Q: What is the documentation, packaging and labeling requirements for shipping MADM?

# A:

Requirements for shipping MADM™   UN3481		
Documentation	All airlines will require the following on the (AWB) airway bill.	
	"Lithium ion batteries in compliance with section II of PI967" in	
	the Handling Information section.	
	When travelling by air, a few airlines require a specific Section II	
	battery exemption form. (Airline would provide this form)	
	Shipper and consignee addresses	
	Lithium ion batteries contained in equipment	
Packaging	The current MADM black pelican case meets shipping requirements.	
Labeling	Class 9 Battery Label <a href="color: blue;">download here</a> affixed to the System case	
	Shipper and consignee addresses	
	UN3481	
	Lithium ion batteries contained in equipment	
	Net quantity (if more then 1 non-identical packages is shipped)	





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### Q: Can the MADM™ battery be removed from the system for transport?

A: No. The battery can not be removed, and therefore must ship in the MADM system.

### Q: Does the MADM unit qualify for any lithium battery transport exemptions?

A: The MADM battery is under 100Wh and qualifies for the lithium ion battery exemption. The battery falls under UN3481, Class 9, Lithium ion batteries contained in equipment.

### Q: What are the shipping methods for MADM?

A: MADM, can be shipped by air or ground.

### **Air shipments**

- Many airlines have variations whereby they only accept specific UN#'s and battery configurations.
- UN3481 (MADM), would be allowed to ship PAX (passenger aircraft). PAX limit is 5 kg net weight of batteries per package.
  - Note: CAO may also be the only option for UN3481 depending on carrier variations.

# Airplane Carry-on or checked luggage.

- MADM systems may be carried as carry-on or checked baggage
  - IATA allows 15 electronic devices with battery contained in equipment. However, airlines and airport security may restrict overall amount per person. An absolute limit per person is therefore unknowable.

#### **Ground shipments**

Refer to the packaging requirements for UN3481 in the above section.

# Q: Are there any differences in shipping destinations for batteries?

A: There are no differences in shipping destinations for batteries between Canada to USA, US to USA, US to Canada, Canada to ROW, and USA to ROW.

However, based on 49 CFR 173.185, the MADM system may be shipped by ground in accordance with the DG regulations as USA and Canada have an exemption for lithium ion batteries under 100Wh. See requirements for shipping MADM above.



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