

# GROUND TRANSPORTATION (Packaging & Labeling)

## LITHIUM METAL BATTERIES

### MEDIUM SIZE

#### 49 CFR, SPECIAL PROVISION 189

(GUIDE LINE AND REFERENCE ONLY, "HM" TRAINING CERTIFICATION REQUIRED)

- The lithium content of the anode of each cell, when fully charged, is not more than 5 grams.
- The aggregate lithium content of the anode of each battery, when fully charged, is not more than 25 grams.
- Cell/ battery must pass "UN" tests, except shipments for testing (prototype), see 49CFR (e-CFR on web) 173.185/ (e).

#### **A- If less than 24 cells or less than 12 batteries in each package:**

- Packed in strong outer packaging (no "UN" spec. box required), prevent short circuits.
- Label as shown below:

FROM:
TO:

**LITHIUM BATTERIES—  
FORBIDDEN FOR  
TRANSPORT ABOARD  
AIRCRAFT AND VESSEL**

#### **B- If more than 24 cells or more than 12 batteries in each package:**

- 1.2m drop test box required.
- Prevent short circuits.
- Package max. gross weight 30 kg (66 lbs).
- Labels as shown below.

FROM:
TO:



**LITHIUM BATTERIES—  
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