



United Nations (UN) Manual of Tests and Criteria, Section 38.3. The UN 38.3 testing accounts for transportation impacts such as: ??? Altitude ??? UN3481, Lithium ion batteries packed with equipment including lithium ion polymer batteries ??? Contained in ??? Package contains equipment with cells/batteries installed:



LITHIUM ION BATTERY PACK SDS Version 5 ???
March 22, 2019 Battery Packed within Equipment:
UN 3481 HAZCHEM CODE (Australia) : 4W
SUPPLIER OF THE SAFETY DATA SHEET . U.S.
SUPPLIER/MANUFACTURER's NAME : Entrusted
by Brady Worldwide Inc. Business Phone
(414)358-6600 [8am - 5pm CT] to: ADDRESS:
Inventus



UN 3090, Lithium metal batteries; or; UN 3480, Lithium-ion batteries; or, if inside a piece of equipment or packed separately with a piece of equipment to power that equipment as: UN 3091, Lithium metal batteries contained in equipment; or; UN 3091, Lithium metal batteries packed with equipment; UN 3481, Lithium-ion batteries contained in

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



UN3480 - PI965 UN 3481 -PI966 UN3481 - PI967
Section PI965-Section IB PI966 - Section II PI967 -
Section II Description Lithium Cells / Batteries loose
(bulk) Important: State of Charge (SoC) of the
battery/ cell must not exceed 30% Lithium
Cells/Batteries packed with equipment Lithium Cells
/ Batteries contained in equipment Lithium ion cells



??? UN 3480 Lithium ion batteries ??? UN 3481
Lithium ion batteries contained in equipment ???
UN 3481 Lithium ion batteries packed with
equipment In individual cases, a dangerous goods
expert should be consulted. Local authorities are
responsible for the inter-ation and implementation of
the relevant regulations.



UN 3481, Lithium Ion Batteries packed with
equipment; UN 3481, Lithium Ion Batteries
contained in equipment UN 3091, Lithium Metal
Batteries packed with equipment; UN 3091, Lithium
Metal Batteries contained in equipment; Ship
Prototypes of Lithium batteries. 173.185(e) - Must
be shipped by ground as Class 9; A55 Cargo
aircraft under

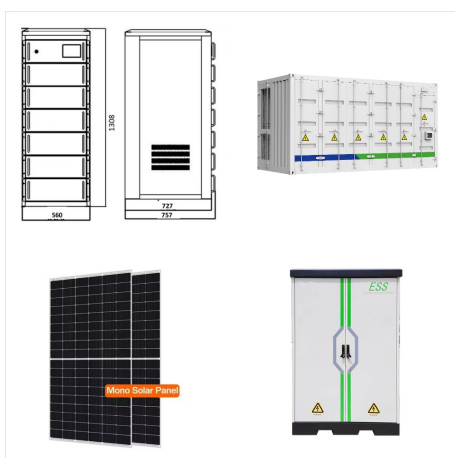
UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) 34, 123, 137, 138, 159: What are the requirements of Special Provision 34? Must be packed in accordance with Packing Instructions P909 or LP904 of the UN Recommendations, as applicable, whether packed with or without non-lithium cells or batteries or the



small lithium ion batteries packed with equipment .
net wt of small batteries per package is no more than 5 kg ??? lithium ion batteries packed with equipment, un 3481 ??? ground & vessel transport ??? battery size: small (un tested) ???
declaration/shipping paper: no ??? equipment and battery in same package. battery not installed.



Lithium-Ion Batteries Shipped In Or With Equipment UN 3481; Hazard: Lithium-Ion Batteries Shipped In Or With Equipment UN 3481 power pack, drone battery, etc.) is two or more cells electrically connected. Rechargeable lithium-ion cells and batteries are manufactured in various shapes, sizes, and chemistries depending on the application.

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



Substance information for UN 3481 - Lithium ion batteries packed with equipment including lithium ion polymer batteries based on the Hazardous Materials Table (Title 49 CFR 172.101) to assist in preparing a risk assessment for loading, transporting and storing hazardous materials.



This applies to UN 3481 Lithium ion batteries contained in equipment (see Section II of Packing Instruction 967) and UN3091 Lithium metal batteries contained in equipment (see section II of Packing I have an MP3 player that contains one single-cell lithium ion battery pack. Do I have to label the shipping box that contains each MP3 player



- Battery only: UN 3480 Lithium ion Batteries -
Battery with equipment UN 3481 Lithium ion
Batteries packed with equipment Product Numbers:
Trade Name Model Number Voltage (Vdc) Rated
Capacity (Ah) Rated Capacity (Wh) Milwaukee M12
B2 12V 2 24 Milwaukee M12 B3 12V 3 36
Milwaukee M12 B4 12V 4 48 Milwaukee M12 B6
12V 6 72

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



??? UN 3481, Lithium ion batteries packed with equipment. In the absence of exceptions, these batteries must be shipped in qu with the limitations contained in the Regulations (see DGR Table 4.2). UN 3481 (Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment). All applicable requirements contained in the



Data for UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) UN-number: 3481: Name: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) Comment: ???



UN 3481, lithium ion batteries packed with equipment where the cells/batteries have a Watt-hour rating greater than 2.7 Wh. Starting January 1, 2026, shipments of the following must be offered for transport at a state of charge not exceeding 30% of their rated design capacity or an indicated battery capacity not exceeding 25%:

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



Labels can be combined for quantity pricing. Identify ground and air shipments containing lithium ion batteries packed separately with equipment. Complies with D.O.T., I.A.T.A. and I.C.A.O. requirements. Gloss paper with permanent adhesive. Hazard Class 9. ULINE offers over 42,000 boxes, plastic poly bags, mailing tubes, warehouse supplies and bubble wrap for your storage, ???



ADR: UN 3481 IMDG Code: LITHIUM-ION BATTERIES PACKED WITH EQUIPMENT UN 3481 or LITHIUM-ION BATTERIES CONTAINED IN EQUIPMENT UN 3481 Sea freight Container Marking None Container Placards (min. 25 cm x 25 cm) Transport Document N/A UN 3480 LITHIUM ION BATTERIES, 9, (E) UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, 9, (E)



may not exceed lithium ion batteries of 100 Watt-hours (Wh) each, or lithium ion cells not exceeding 20 Wh each. Starting in 2016 lithium ion batteries using this exception must be marked with the watt-hour rating; The 2020 Scope has 4 batteries; only two batteries are allowed in the equipment to eliminate package marking or documentation.

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



The UN (United Nations) number shipping name UN 3481 is used to describe lithium-ion batteries that are packed with equipment. The International Civil Aviation Organization's "Technical Instructions for the Safe Transport of Dangerous Goods by Air" paper and the IATA's "Dangerous Goods Rules (DGR)" document establish severe



Toro Lithium Ion Battery Powered Equipment (UN3481) (Lithium Ion Battery Packed with Equipment) Toro Australia - TEST Chemwatch Hazard Alert Code: 3 Chemwatch: 5351-43 Version No: 6.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Issue Date: 03/09/2020 Print Date: 09/02/2022 ???



Class 9 ??? UN3481 ??? Lithium ion batteries contained in or packed with the equipment, but not attached to the source. Class 9 ??? UN3481 ??? Lithium ion batteries contained in or packed with the equipment, installed / integrated at the source. For each model of battery, there are different requirements to be verified: ??? Type of battery.

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



??? UN 3481, Lithium ion batteries packed with equipment. Lithium battery test summary ??? effective 1 January 2020, manufacturers and subsequent distributors of cells or batteries and equipment ???



powered by lithium metal batteries or lithium ion batteries must be assigned to the entries UN 3091, Lithium metal batteries contained in equipment or UN 3091 Lithium metal batteries packed with equipment or UN 3481 Lithium ion batteries contained in equipment or UN 3481 Lithium ion batteries packed with equipment, as appropriate.



UN No. 3481: NAME and description: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) Technical name (SP 274, 318, 61, 220) Alternative PSN: Class: 9: Classification code: M4: Packing group: Labels

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



Where the lithium battery is removed from the vehicle and is packed separate from the vehicle in the same outer packaging, the package must be consigned as "UN 3481, Lithium ion batteries packed with equipment" or "UN 3091, Lithium metal batteries packed with equipment" and prepared in accordance with the requirements specified in



P908, Damaged or defective cells and batteries of UN Nos. 3090, 3091, 3480 and 3481 P909, Disposal or recycling cells and batteries of UN Nos. 3090, 3091, 3480 and 3481 General Provisions for packaging (4.1.1) and UN3481, LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, 9, (E)



"XXX When a package contains a combination of lithium batteries contained in equipment and lithium batteries packed with equipment, the following requirements apply: (a) the package shall be marked UN 3091 Lithium metal batteries packed with equipment, or UN 3481 Lithium ion batteries packed with equipment, as appropriate.

UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



UN3481 Lithium ion batteries packed with equipment For UN3481 Lithium Ion batteries contained in equipment mix with UN3091 Lithium Metal batteries packed with equipment, package must be marked both types (Exemption: Buttons cells installed in equipment, e.g. circuit board, watches): UN3481 Lithium ion batteries contained in equipment & UN3091