

Information for self-collectors regarding dangerous goods

Information about lithium batteries in QUNDIS devices

Lithium batteries are subject to the requirements of the dangerous goods directive GGVSEB and the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) as well as the International Air Transport Association Dangerous Goods Regulations (IATA- DGR), as the batteries are potentially hazardous. They are therefore subject to the national transport regulations depending on the mode of transport. The non-observance of the regulations for the transport of dangerous goods may result in significant fine proceedings.

Different marking and documentation requirements result for the shipper depending on the lithium content of the cells/batteries installed in the devices.

The following sets of rules apply: <http://www.tes.bam.de/de/regelwerke/gefahrgutvorschriften/#adr>

ADR English - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADR German - Europäisches Übereinkommen über internationale Beförderung gefährlicher Güter auf der Straße

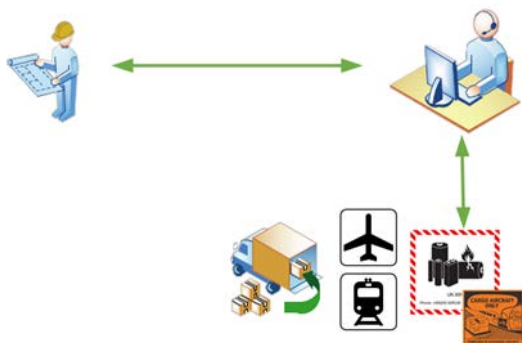
GGVSEB – Gefahrgutverordnung Straße, Eisenbahn, Binnenschifffahrt (Directive on the Transport of Dangerous Goods by Road, Rail and Inland Waterways)

IATA - International Air Transport Association Dangerous Goods Regulations (DGR)

IMDG Code – International Maritime Dangerous Goods Code

Important information for the self-collection of products at QUNDIS

Please note that, when self-collecting products, their relevance with respect to dangerous goods must be clarified beforehand. QUNDIS provides you with packing data and information as to whether lithium batteries are contained in your shipment and whether they are dangerous goods.



Please note: QUNDIS itself does not ship any devices and batteries by air cargo and does not offer this service!

QUNDIS prepares the shipment exclusively for collection via road transport.

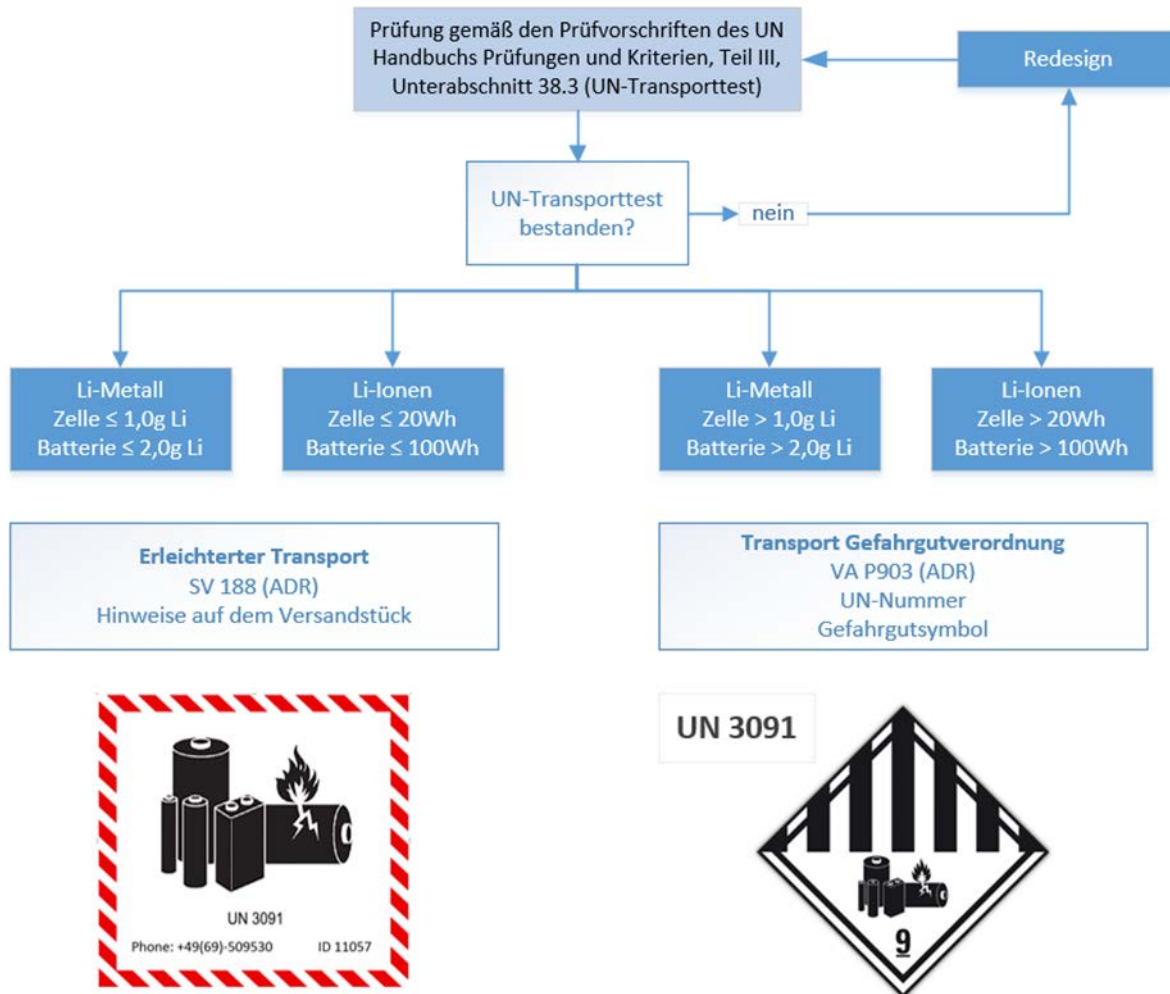
PLEASE NOTE!

Not all transport companies are qualified to transport dangerous goods! Ask your transport company and have this confirmed in the form of a relevant certificate.

In the following, we have provided a summary of the transport and marking requirements for the different lithium batteries in QUNDIS devices.

Release criteria for lithium batteries/cells

Batteries are subject to transport regulations depending on the mode of transport. However, most QUNDIS lithium batteries in the product catalogue are released from the hazardous goods regulations if they meet the following requirements:




Overview of dangerous goods relevance for road transport

1 Transport regulation for devices with Li batteries (lithium content cell < 1 g, battery < 2 g)

QUNDIS product	Name	Lithium per cell [g]
WFx3x.*	Qwater (Volu3)	0.3
WFZ.BW*	Battery replacement packet Megatron2	0.6
WFZ.PS*	Triggering tool for radio telegrams	0.3
WFZ16.DM*	Add-on radio module Deltamess	0.3
WFZ16.WG*	Add-on radio module for water devices	0.3
WFZ16.AL*	Add-on radio module Allmess	0.4
WFZ16.EL*	Add-on radio module Elster	0.4
RWM5*	Add-on radio module Modularis	0.4
WTX16.232*	Network node, radio 868MHz network network connection	0.6
WTX16.MOD-1	Gateway GSM and GPRS external antenna network connection	0.6
AEW3*	Impulse adapter	0.6
HCA5*	Qcaloric heat cost allocator	0.3
HMC5*/HMR5*	Qheat heat meter	0.6
MHM5*	M-bus module for Q heat 5 QUN	0.4
WME5*	QWATER5.5	0.6
WMM5*	Mech. water meter with installed add-on radio module	0.4
SDT5003xxx	Qsmoke5.5 AMR-WB-S/C Qundis	2 x 0.65
SDT5ZZ3xxx	Smoke detector standalone - Hekatron Genius H-N	0.65
SDT5ZZ20xxx	Smoke detector standalone - Pyrex PX-I (V3)	0.6
FBCRAA/KS	Battery -Lithium- CRAA with cable and plug	0.6
FBR0018	Battery_Saft_AA_Qnode5-LS14500_QUN	1
RML5Q206xxx	Q log 5.5 (lithium-ion cell)	4.9 Wh

1.1 Aeroplane: Transport of devices with batteries (lithium content cell < 1 g, battery < 2 g)

Marking	Restrictions
	<p>Net quantity of Li batteries per package < 5 kg; no marking for packet with max. 2 installed batteries. Note! Shipments with non-marked packets may consist of a maximum of two packages!</p> <p>The transport company must be informed that lithium metal batteries are to be transported. This must be noted on the consignment note.</p> <p>QUNDIS products may not be carried onto passenger aircraft!</p>

1.2 Road and rail: Transport of devices with batteries (lithium content cell < 1 g, battery < 2 g)

Marking

Restrictions

	<p>Note! The transport company must be informed that lithium metal batteries are to be transported. This must be noted on the consignment note.</p>
--	--

2 Transport regulation for devices with Li batteries (lithium content cell > 1 g, battery > 2 g)

Some QUNDIS devices are equipped with lithium metal batteries whose lithium content is greater than 2 g. There is no exemption for these devices.

QUNDIS product	Name	Lithium per cell [g]
RNN5xxx	Q node 5	4.5
WTT16xxx	Network node radio 868MHz battery	4.4
R20xxx, R21xxx, R28xxx	Calculator unit for split heat meter	3.5
rcu4xxx	Data collector	10
RNG5xxx	QGateway5	2 x 10


2.1 Aeroplane: Transport of devices with batteries (lithium content cell > 1 g, battery > 2 g)

Marking

Restrictions

	<p>Maximum quantities: <u>Lithium metal per device:</u> 12 g per cell and 500 g per battery <u>Batteries per package without device weight:</u> cargo aircraft up to 35 kg</p> <p>QUNDIS products may not be carried onto passenger aircraft! Transport only in original QUNDIS packaging! Note! Only approved packaging may be used - Packaging Regulation 970 (Approval number)</p> <p>The transport company must be informed that lithium metal batteries are to be transported. This must be noted on the consignment note.</p> <p>Transport document for the transport of packages by air transport in accordance with the applicable IATA-DGR (Annex II)</p>
--	--

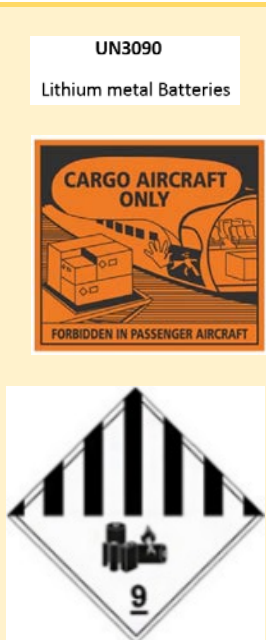
2.2 Road and rail: Transport of devices with batteries (lithium content cell > 1 g, battery > 2 g)

Marking	Restrictions
 <p>UN 3091 Lithium metal batteries contained in equipment</p>	<p>Transport only in original QUNDIS packaging</p> <p>Note! The transport company must be informed that lithium metal batteries are to be transported. This must be noted on the consignment note.</p> <p>Transport document for the transport of packages by air transport in accordance with the applicable IATA-DGR (Annex II)</p> <p>Observe load securing requirements!</p>

3 Transport regulation for individual lithium batteries for battery replacement (lithium content > 2 g)

Lithium metal batteries	Name	Lithium content per cell [g]
WTZ.BAT	Replacement battery network node	3.8


3.1 Aeroplane: Transport of batteries (lithium content cell greater than 1 g, battery greater than 2 g)

Marking	Restrictions
 <p>UN3090 Lithium metal Batteries</p> <p>CARGO AIRCRAFT ONLY FORBIDDEN IN PASSENGER AIRCRAFT</p>	<p>Ban on carrying onto passenger aircraft!</p> <p>The following applies for cargo aircraft: 35 kg for Cargo Aircraft Only shipments</p> <p>Transport document (shipper's declaration) for the transport of packages by air transport in accordance with the applicable IATA-DGR</p> <p>Specification on the delivery note that lithium metal batteries are contained – remains on the goods or must be carried</p> <p>Note! Only approved packaging (Packaging Group II) may be used - Packaging Regulation 968 (Approval number)</p> <p>The transport company must be informed that lithium metal batteries are to be transported. Observe the instructions of the transport company!</p>

No battery returns to QUNDIS.
QUNDIS itself does not ship any batteries by air cargo and does not offer this service!

3.2 Road and rail: Transport of batteries (lithium content cell > 1 g, battery > 2 g)

Marking

<p>UN3090 Lithium metal Batteries</p>  <p>The image shows a diamond-shaped hazard label for UN3090 Lithium metal Batteries. It features a black and white striped pattern in the upper half, a central illustration of a battery, and the number '9' in a white circle at the bottom.</p>	<h4>Restrictions</h4> <p>Specification on the delivery note that lithium metal batteries are contained – remains on the goods or must be carried</p> <p>Note! Only approved packaging may be used - <i>Packaging Regulation P903 (Approval number)</i></p> <p>The transport company must be informed that lithium metal batteries are to be transported. Observe the instructions of the transport company!</p> <p>Transport document for the transport of packages by road transport according to the applicable ADR requirement – Annex I (hand over original to the driver, archive copy)</p>
--	--

No battery returns to QUNDIS.

QUNDIS itself does not ship any batteries by air cargo and does not offer this service!