



Transportation of Dangerous Goods Directorate
L'Esplanade Laurier
300 Laurier Avenue West
Ottawa, Ontario
K1A 0N5

Direction générale du transport des marchandises dangereuses
L'Esplanade Laurier
300, avenue Laurier Ouest
Ottawa (Ontario)
K1A 0N5



Equivalency Certificate (Approval issued by the competent authority of Canada)

Certificate No.: SU 13846 (Ren. 2)

Certificate Type: Based on template 48

Certificate Holder: Call2Recycle Canada, Inc.

Mode of Transport: Road, Rail, Marine

Effective Date: February 2, 2023

Expiry Date: September 30, 2024

LEGEND

For the purposes of this equivalency certificate, documents referred to by an abbreviation have the following meaning:

TDG Act: *Transportation of Dangerous Goods Act, 1992*

TDG Regulations: *Transportation of Dangerous Goods Regulations*

49 CFR: *Parts 171 to 180 of Title 49 of the "Code of Federal Regulations" of the United States, as amended from time to time*

CGSB-43.145: *National Standard of Canada CGSB-43.145, "Design, manufacture and use of large packagings for the transportation of dangerous goods, classes 3, 4, 5, 6.1, 8, and 9", April 2019, published by the Canadian General Standards Board (CGSB)*

CGSB-43.150: *National Standard of Canada CGSB-43.150, "Design, manufacture and use of UN Standardized drums, jerricans, boxes, bags, combination packaging, composite packaging and other packagings for the transport of dangerous goods, classes 3, 4, 5, 6.1, 8, and 9", March 2020, published by the Canadian General Standards Board (CGSB)*

UN Recommendations: *"Recommendations on the Transport of Dangerous Goods", published by the United Nations (UN), as amended from time to time*

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Manual of Tests and Criteria: “*Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria*”, published by the United Nations (UN), as amended from time to time

NOTES

Note 1: Subsection 31(4) of the *TDG Act* stipulates that any non-compliance with the conditions of this equivalency certificate will result in the provisions of the *TDG Act* and *TDG Regulations* to apply as though this equivalency certificate did not exist.

Note 2: This equivalency certificate provides no regulatory relief other than specifically stated herein. Therefore, all other requirements of the *TDG Act* and the *TDG Regulations* apply.

PURPOSE

(The following is for information purposes only and is not part of the certificate.)

The certificate holder (**Call2Recycle Canada, Inc.**) is working with automotive dealers to prepare large used automotive lithium-ion batteries for transport. The batteries are being transported to a recycling facility.

Part A of this equivalency certificate authorizes the transport of batteries that are destined for disposal, recycling or any other reclamation process. This certificate prescribes various options for packaging listed in the *UN Recommendations* or *CGSB-43.150*. However, despite these requirements, when the batteries have a mass of 12 kg or greater and have a strong impact-resistant outer casing, the batteries may be transported in a non-specification packaging, such as a strong outer packaging, protective enclosure, pallet, or handling device. This reflects the allowance to use a non-specification packaging in Packing Instructions P903 and LP903 of the *UN Recommendations* for new batteries.

Part B of this equivalency certificate pertains to lithium ion batteries that are damaged, defective and/or recalled. **Part B** also allows the transport of lithium ion batteries that are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours.

Parts A and B of this equivalency certificate also allow alternative dangerous goods safety mark requirements that are based on the requirements for IBCs in Part 4 of the *TDG Regulations* and the *49 CFR*. However, the conditions of this equivalency certificate do not exactly match the requirements of the *49 CFR*.

If the employee at the automotive dealership is not adequately trained and does not hold a training certificate in accordance with Part 6 of the *TDG Regulations*, the person must follow the instructions provided by **Call2Recycle Canada, Inc.** to properly prepare the dangerous goods for transport in accordance with the conditions of this equivalency certificate.

All other requirements of the *TDG Regulations* apply.

CONDITIONS - Part A

Batteries transported for disposal, recycling or any other reclamation process

This equivalency certificate authorizes:

- **Call2Recycle Canada, Inc. and anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** to handle, offer for transport or transport,
- **any person** on behalf of **Call2Recycle Canada, Inc.** to handle or transport, and
- **any person** on behalf of **anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** to handle or transport,

by road or railway vehicle, or by vessel in Canada, dangerous goods that are:

UN Number	Shipping Name and Description	Class	Packing Group
UN3480	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	9	N/A
UN3496	BATTERIES, NICKEL-METAL HYDRIDE	9	N/A

in a manner that does not comply with:

- section 5.14 of the *TDG Regulations*,
- Special Provision 138(1)(b) in Schedule 2 of the *TDG Regulations*, but only as it relates to Packing Instruction LP904,

if the following conditions are met:

1) General

- a) The batteries are transported for disposal, recycling or any other reclamation process;
- b) The batteries are transported in accordance with special provision 138 of Schedule 2 of the *TDG Regulations*, except for 138(1)(b);
- c) Detailed instructions on how to package and ship the battery are provided by **Call2Recycle Canada, Inc. to anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** preparing shipments under the conditions of this equivalency certificate;

- d) The dangerous goods **UN3496 BATTERIES, NICKEL-METAL HYDRIDE** are only subject to the conditions of this equivalency certificate when transported by vessel in Canada.

Note: Special Provision 97 in Schedule 2 of the TDG Regulations exempts UN3496 from the TDG Regulations unless they are transported by vessel.

2) Means of Containment

Small packaging with a volume less than or equal to 450 L

- a) The batteries are transported in accordance with Packing Instruction:
- i) 909 of *CGSB-43.150*, or
 - ii) P909 of the *UN Recommendations*;

Large packaging with a volume over 450 L

- b) The batteries are transported in accordance with Packing Instruction:
- i) LP904 of *CGSB-43.145*, or
 - ii) LP904 of the *UN Recommendations*;
- c) Despite conditions 2)a) and 2)b) above, when the batteries have a mass of 12 kg or greater and have a strong impact-resistant outer casing, the batteries may be transported in accordance with conditions 2)d) to 2)g) below;
- d) The battery is contained:
- i) in a strong outer packaging,
 - ii) in a protective enclosure (e.g., in fully enclosed or slatted wooden crates), or
 - iii) on a pallet or other handling devices;
- e) The strong outer packaging, protective enclosure, pallet, or handling device, referred to in condition 2)d) above, is constructed of suitable material, and of adequate strength and design in relation to the packaging capacity and its intended use;
- f) The battery is protected against short circuit;
- g) The battery is secured to prevent inadvertent movement;

Note: Conditions 2)c) to 2)g) are based on packing instruction P903 of the UN Recommendations.

- h) The battery or the means of containment containing the battery is loaded and secured on the means of transport in such a way as to prevent, under normal conditions of transport, damage to the means of containment or to the means of transport that could lead to an accidental release of the dangerous goods.

3) Safety marks – Marking, Labelling and Placarding

Volume less than or equal to 450 L

- a) When the volume of the battery or the means of containment containing the battery is less than or equal to 450 L, the means of containment must display, in accordance with Part 4 of the *TDG Regulations*:
- i) the Class 9, lithium battery label,
 - ii) the shipping name, and
 - iii) the UN number;

Volume greater than 450 L

- b) When the volume of the battery or the means of containment containing the battery, is greater than 450 L, the means of containment or the battery itself shall display the class 9 placards in accordance with Part 4 of the *TDG Regulations*;
- c) Despite section 4.15.2 of the *TDG Regulations*, the UN number “**3480**” may also be displayed on or next to the class 9 placard in accordance with 4.8(2) of the *TDG Regulations*;

Volume greater than 450 L but less than 3785 L (US 1000 gallons)

- d) Instead of displaying placards in accordance with subsection 4.15(1) of the *TDG Regulations*, when the volume of the battery or the means of containment containing the battery, is greater than 450 L but less than 3785 L (US 1000 gallons), the means of containment or the battery itself may display on two opposite sides:
- i) the class 9 placard and UN number in accordance with subsection 4.8(2) of the *TDG Regulations*, or
 - ii) the class 9 lithium battery label, the UN Number in accordance with subsection 4.8(1) of the *TDG Regulations*, and the shipping name in accordance with section 4.11 of the *TDG Regulations*;

- e) In addition to the labels or placards required in the conditions above, the means of containment or the battery itself must be durably and legibly marked on a contrasting background, in characters that are at least 12 mm high, with the words below, as appropriate:
 - i) “**Lithium batteries for disposal – Forbidden for transport by aircraft**”,
 - ii) “**Lithium batteries for recycling – Forbidden for transport by aircraft**”,
 - iii) “**Piles au lithium destinées à l’élimination – Interdit par transport aérien**”,
or
 - iv) “**Piles au lithium destinées au recyclage – Interdit par transport aérien**”.

4) Documentation

- a) **Call2Recycle Canada, Inc.** provides a partially completed shipping document to **anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** preparing the shipment.

***Note:** Information that is subject to change, may be omitted from the partially completed shipping document. For example, the date, quantity of dangerous goods, consignor name and address, and the name of the individual making the consignor certification as per section 3.6.1 of the TDG Regulations.*

- b) The shipping document that accompanies the dangerous goods contains the following information legibly and indelibly printed:
 - i) “**Equivalency Certificate SU 13846 (Ren. 2)**”, or
 - ii) “**Certificat d’équivalence SU 13846 (Ren. 2)**”.

5) Training

- a) In addition to the requirements of Part 6 (Training) of the *TDG Regulations*, the certificate holder must ensure that the personnel handling, offering for transport, or transporting the dangerous goods are trained to the conditions of this equivalency certificate that relate directly to the person's duties;
- b) Despite Part 6 of the *TDG Regulations*, when a person is not adequately trained and does not hold a training certificate in accordance with Part 6 of the *TDG Regulations*, the person must follow the instructions provided by **Call2Recycle Canada, Inc.** to properly prepare the dangerous goods for transport in accordance with the conditions of this equivalency certificate.

Conditions - Part B

Damaged, defective and recalled batteries, and

Damaged, defective and recalled batteries that are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours

This equivalency certificate authorizes:

- **Call2Recycle Canada, Inc. and anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** to handle, offer for transport or transport,
- **any person** on behalf of **Call2Recycle Canada, Inc.** to handle or transport, and
- **any person** on behalf of **anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** to handle or transport,

by road or railway vehicle, or by vessel in Canada, dangerous goods that are:

UN Number	Shipping Name and Description	Class	Packing Group
UN3480	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	9	N/A

in a manner that does not comply with:

- section 5.14 of the *TDG Regulations*,
- Special Provision 137(5) in Schedule 2 of the *TDG Regulations*,

if the following conditions are met:

1) General

- a) The dangerous goods are lithium-ion batteries that are damaged, defective or subject to a recall;

Note: *This includes batteries that are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours.*

- b) The batteries are transported in accordance with special provision 137 in Schedule 2 of the *TDG Regulations*, except for 137(5);

- c) Detailed instructions on how to package and ship the battery, are provided by **Call2Recycle Canada, Inc. to anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** preparing shipments under the conditions of this equivalency certificate.

2) Means of Containment

Damaged, defective and recalled batteries

Small packaging with a volume of 450 L or less

- a) The batteries are transported in accordance with Packing Instruction:
- i) 908 *CGSB-43.150*,
 - ii) P908 of the *UN Recommendations*, or
 - iii) P911 of the *UN Recommendations*;

Large packaging with a volume over 450 L

- b) The batteries are transported in accordance with Packing Instruction:
- i) LP904 of *CGSB-43.145*,
 - ii) LP904 of the *UN Recommendations*, or
 - iii) LP906 of the *UN Recommendations*;

Damaged, defective and recalled batteries that are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours

Small packaging with a volume of 450 L or less

- c) The batteries are transported in accordance with Packing Instruction P911 of the *UN Recommendations*;

Large packaging with a volume over 450 L

- d) The batteries are transported in accordance with Packing Instruction LP906 of the *UN Recommendations*;
- e) The battery or the means of containment containing the battery is loaded and secured on the means of transport in such a way as to prevent, under normal conditions of transport, damage to the means of containment or to the means of transport that could lead to an accidental release of the dangerous goods.

3) Safety marks – Marking, Labelling and Placarding

Volume less than or equal to 450 L

- a) When the volume of the means of containment containing the battery is less than or equal to 450 L, the means of containment must display, in accordance with Part 4 of the *TDG Regulations*:
 - i) the Class 9, lithium battery label,
 - ii) the shipping name, and
 - iii) the UN number;

Volume of 450 L or more

- b) When the volume of the battery or the means of containment containing the battery, is greater than 450 L, the means of containment or the battery itself shall display the class 9 placards in accordance with Part 4 of the *TDG Regulations*;
- c) Despite section 4.15.2, the UN number “**3480**” may also be displayed on or next to the class 9 placard in accordance with 4.8(2) of the *TDG Regulations*;

Volume greater than 450 L but less than 3785 L (US 1000 gallons)

- d) Instead of displaying placards in accordance with subsection 4.15(1) of the *TDG Regulations*, when the volume of the battery or the means of containment containing the battery, is greater than 450 L but less than 3785 L (US 1000 gallons), the means of containment or the battery itself may display on two opposite sides:
 - i) the class 9 placard and UN number in accordance with subsection 4.8(2) of the *TDG Regulations*, or
 - ii) the class 9 lithium battery label, the UN Number in accordance with subsection 4.8(1) of the *TDG Regulations*, and the shipping name in accordance with section 4.11 of the *TDG Regulations*.
- e) In addition to the labels or placards required in the conditions above, the means of containment is durably and legibly marked on a contrasting background in characters that are at least 12 mm high, with the words:
 - i) “**Damaged/Defective Lithium Ion Batteries – Forbidden for transport by aircraft**”, or
 - ii) “**Piles au lithium ionique endommagées/défectueuses – Interdit par transport aérien**”.

4) Documentation

- a) **Call2Recycle Canada, Inc.** provides a partially completed shipping document to **anyone participating in the Call2Recycle Canada Inc. battery collection and recycling program** preparing the shipment.

***Note:** Information that is subject to change, may be omitted from the partially completed shipping document. For example, the date, quantity of dangerous goods, consignor name and address, and the name of the individual making the consignor certification as per section 3.6.1 of the TDG Regulations.*

- b) The shipping document that accompanies the dangerous goods contains the following information legibly and indelibly printed:
- i) **“Equivalency Certificate SU 13846 (Ren. 2)”**, or
 - ii) **“Certificat d’équivalence SU 13846 (Ren. 2)”**.

5) Training

- a) In addition to the requirements of Part 6 (Training) of the *TDG Regulations*, the certificate holder must ensure that the personnel handling, offering for transport, or transporting the dangerous goods are trained to the conditions of this equivalency certificate that relate directly to the person's duties;
- b) Despite Part 6 of the *TDG Regulations*, when a person is not adequately trained and does not hold a training certificate in accordance with Part 6 of the *TDG Regulations*, the person must follow the instructions provided by **Call2Recycle Canada, Inc.** to properly prepare the dangerous goods for transport in accordance with the conditions of this equivalency certificate.

Signature of Issuing Authority

David Lamarche, P. Eng., ing.

David Lamarche, P. Eng., ing.
Manager, Approvals and Special Regulatory Projects

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(The following is for information purposes only and is not part of the certificate.)

Contact Person:	Molly Mackenzie Call2Recycle Canada, Inc 2590 Granville Street, Suite 201 Vancouver BC V6H 3H1
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Legend for Certificate Number	
SH - Road, SR - Rail, SA - Air, SM - Marine SU - More than one Mode of Transport Ren - Renewal	

For more information:	
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