

Safety Data Sheet

Nilfisk 36V Li-ion Battery Pack / Nilfisk Lithium-Ion Battery

Issued: 29/04/2021
Version: 1.0.0

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: Nilfisk 36V Li-ion Battery Pack / Nilfisk Lithium-Ion Battery

Other Information: Articles covered by this safety data sheet are shown in the attached list.

Article no

Article no	Description
Article no/VBK no	Nominal Voltage / Nominal Capacity / Nominal Energy / Weight
106479001 / 56654 799 099	Battery, 36V, Li-ion, 10S14P, MH1 / 37.0 V / 44.8 Ah / 1658 Wh / 9600 g
106479002 / 56654 799 094	Battery, 24V, Li-ion, 7S20P, MH1 / 25.9 V / 64.0 Ah / 1658 Wh / 9600 g
106479003 / 56654 799 090	Battery, 48V, Li-ion, 14S10P, MH1 / 51.8 V / 32.0 Ah / 1658 Wh / 9600 g
106479004 / 56660 799 091	Battery, 24V, Li-ion, 7S20P, M26 / 25.55 V / 52.0 Ah / 1329 Wh / 9530 g
106479005 / 56660 799 093	Battery, 36V, Li-ion, 10S14P, M26 / 36.5 V / 36.4 Ah / 1329 Wh / 9530 g
106479006 / 56660 799 092	Battery, 48V, Li-ion, 14S10P, M26 / 51.1 V / 26.0 Ah / 1329 Wh / 9530 g
106479007 / 56667 799 093	Battery, 24V, Li-ion, 7S20P, VTC6 / 25.2 V / 62.4 Ah / 1572 Wh / 9894 g
106479008 / 56667 799 092	Battery, 36V, Li-ion, 10S14P, VTC6 / 36.0 V / 43.68 Ah / 1572 Wh / 9894 g
106479009 / 56667 799 091	Battery, 48V, Li-ion, 14S10P, VTC6 / 50.4 V / 31.2 Ah / 1572 Wh / 9894 g
107408866 /	Battery Pack 36 Volt 10S4P / 36 V / 7,8 Ah / 280,8 Wh / 2500 g

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Lithium ion rechargeable battery.
During normal use and handling the hazardous materials are fully contained inside the battery cell.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Nilfisk A/S
Address: Kornmarksvej 1
Zip code: 2605
City: Brøndby
Country: DENMARK
E-mail: sds.com@nilfisk.com
Phone: +45 43 23 81 00

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Most serious harmful effects: According to REACH, the product is an article and is consequently not subject to the requirement for a safety data sheet. The intact article does not pose any danger. This safety data sheet describes the danger of the mixture inside the article. Contact is only

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possible if the article is not intact. The mixture inside the article has the following hazardous characteristics:

The leaking electrolyte is flammable and corrosive. Causes severe skin burns and eye damage. May cause an allergic skin reaction. In contact with water releases hydrogen.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Supplemental information

According to REACH the product is an article and thus not subject to the requirements regarding labelling.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Metal oxide				20 - 50%		Skin Sens. 1;H317 Acute Tox. 2;H330 Resp. Sens. 1;H334 Carc. 1B;H350 STOT RE 1;H372 Aquatic Chronic 3;H412
Graphite				10 - 30%		
Electrolyte				10 - 20%		Flam. Liq. 2;H225 Acute Tox. 4;H312 Skin Corr. 1B;H314 Skin Sens. 1;H317 Muta. 2;H341 Carc. 2;H351 Aquatic Chronic 2;H411
Aluminum	7429-90-5	231-072-3		2 - 10%		
Copper	7440-50-8	231-159-6		2 - 10%		
Polyvinylidene Fluoride	24937-79-9			< 5%		
1,3-Butadiene-Styrene copolymer	9003-55-8			< 5%		
1,3-propanesultone	1120-71-4	214-317-9		> 0.1%	14	Acute Tox. 4;H302 Acute Tox. 4;H312 Carc. 1B;H350
Lead	7439-92-1	231-100-4		< 0.0010%		Repr. 1A;H360Fd Repr. 1A;H360FD Lact.;H362
cadmium (non-pyrophoric)	7440-43-9	231-152-8		< 0.00010%		Acute Tox. 2;H330 Muta. 2;H341 Carc. 1B;H350 Repr. 2;H361fd STOT RE 1;H372 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
mercury	7439-97-6	231-106-7		< 0.00010%		Acute Tox. 2;H330 Repr. 1B;H360D STOT RE 1;H372 Aquatic Acute 1;H400 Aquatic Chronic 1;H410

Please see section 16 for the full text of H-phrases.

14 = The substance is included in the candidate list (SVHC), Regulation 1907/2006/EC, Article 59.

Ingredient comments:

CAS 24937-79-9, CAS 9003-55-8: Only relevant for: 107408866

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	In case of leaking battery: Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	In case of leaking battery: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	In case of leaking battery: Remove contaminated clothing. Wash skin with soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	In case of leaking battery: Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
Burns:	Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
General:	When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

In case of leaking battery: Ingestion may cause caustic burning in mouth, esophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth. Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Metal fire extinction powder, rock salt or dry sand shall be used. In case only water is available, it can be used in large amounts.
Unsuitable extinguishing media:	Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposures to high temperatures (>100 °C), electrical or mechanical abuse can cause venting of the liquid electrolyte. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Hydrogen fluoride.

5.3. Advice for fire-fighters

Extinguishing water which has been in contact with the product may be corrosive. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel: In case of leaking battery: Wear gloves. Wear safety goggles/face protection. Provide adequate ventilation. Smoking and naked flames prohibited. In case of missing process ventilation: Wear respiratory protective equipment.

For emergency responders: In addition to the above: Chemical protective suit equivalent to EN 943-2 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. Caution! Causes burns. Rinse with water.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking and naked flames prohibited. Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Store in a dry, cool, well-ventilated area. Avoid high temperatures, electrical or mechanical abuse. Keep away from sources of ignition. Do not short circuit the battery.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: In case of leaking battery: Wear safety goggles/face protection. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: In case of leaking battery: Wear gloves. Type of material: Latex/ Neoprene rubber. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Battery.
Colour	No data
Odour	No data
Solubility	Insoluble
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	No data	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

The battery is hermetically sealed. The battery is stable under normal conditions. Exposure to high temperatures can cause venting of the liquid electrolyte and/or heat generation and ignition. Internal shorting or mechanical abuse could also cause venting of the electrolyte.

10.3. Possibility of hazardous reactions

In contact with water releases hydrogen.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources. Avoid direct sunlight. Avoid temperatures >100°C. Avoid contact with moisture and water.

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None, if stored at the recommended storage conditions. The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	The product does not have to be classified.
Acute toxicity - dermal:	The product does not have to be classified.
Acute toxicity - inhalation:	The product does not have to be classified.
Skin corrosion/irritation:	The product does not have to be classified. In case of leaking battery: Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin.
Serious eye damage/eye irritation:	The product does not have to be classified. In case of leaking battery: Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. In case of leaking battery: May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.
Germ cell mutagenicity:	The product does not have to be classified. In case of leaking battery: The product contains at least one substance suspected of being mutagenic.
Carcinogenic properties:	The product does not have to be classified. In case of leaking battery: The product contains at least one substance that is suspected of being carcinogenic.
Reproductive toxicity:	The product does not have to be classified.
Single STOT exposure:	The product does not have to be classified. In case of leaking battery: Inhalation of vapours may cause irritation to the upper airways.
Repeated STOT exposure:	The product does not have to be classified. In case of leaking battery: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard:	The product does not have to be classified.
Other toxicological effects:	In case of leaking battery: Ingestion may cause caustic burning in mouth, oesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth.

SECTION 12: Ecological information

12.1. Toxicity

In case of leaking battery: Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

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Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

Category of waste: Product: 16 06 05 other batteries and accumulators
Absorbent/cloth contaminated with the product: EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	3480	14.4. Packing group:	
14.2. UN proper shipping name:	LITHIUM ION BATTERIES	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	9		
Hazard label(s):	LITH		
Hazard identification number:		Tunnel restriction code:	E
Other Information:	Alternative UN number: UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT		

Inland water ways transport (ADN)

14.1. UN-No.:	3480	14.4. Packing group:	
14.2. UN proper shipping name:	LITHIUM ION BATTERIES	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).

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14.3. Transport hazard class(es): 9

Hazard label(s): LITH

Transport in tank vessels:

Other Information:

Alternative UN number:
UN 3481 LITHIUM ION
BATTERIES CONTAINED
IN EQUIPMENT
UN 3481 LITHIUM ION
BATTERIES PACKED
WITH EQUIPMENT

Sea transport (IMDG)

14.1. UN-No.: 3480

14.2. UN proper shipping name: LITHIUM ION BATTERIES

14.3. Transport hazard class(es): 9

Hazard label(s): LITH

EmS: F-A, S-I

14.4. Packing group:

14.5. Environmental hazards:
Environmental Hazardous
Substance Name(s):

The product is not a Marine
Pollutant (MP).

IMDG Code segregation group: - None -

Other Information: Alternative UN number:
UN 3481 LITHIUM ION
BATTERIES CONTAINED IN
EQUIPMENT
UN 3481 LITHIUM ION
BATTERIES PACKED WITH
EQUIPMENT

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.: 3480

14.2. UN proper shipping name: LITHIUM ION BATTERIES

14.3. Transport hazard class(es): 9

Hazard label(s): LITH

14.4. Packing group:

14.5. Environmental hazards:

The product should not be
labelled as an
environmental hazard
(symbol: fish and tree).

Other Information:

Alternative UN number:
UN 3481 LITHIUM ION
BATTERIES CONTAINED
IN EQUIPMENT
UN 3481 LITHIUM ION
BATTERIES PACKED
WITH EQUIPMENT

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions: The product contains at least one substance comprised by Regulation 1907/2006/EC, Article 59 (SVHC).

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15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	29/04/2021	Bureau Veritas HSE/JST	

Abbreviations:
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

List of relevant H-statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS is prepared by

Company: Bureau Veritas HSE Denmark A/S
Address: Oldenborggade 25-31
Zip code: 7000

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Document language: GB

Appendix to Safety Data Sheet



Nilfisk 36V Li-ion Battery Pack and Nilfisk Lithium-Ion Battery

Revisions date:	14-06-2021	Version:	1.0	Language	EN
Replaces date:	None	Version:	-		
Author:	Lars Thorlaksen, Global Packaging Engineer / DGSA			Pages:	2

This document, only available in English, is an appendix to “Safety Data Sheet for Nilfisk 36V Li-ion Battery Pack / Nilfisk Lithium-Ion Battery”.

The document lists the series of Nilfisk Lithium-Ion Batteries, their specifications and in which kitsets, packages and machines they can occur.

Specifications for HazMat shipping condition can be found in section 4 of this document.

Section 1. Batteries and their specifications

Nilfisk item #	Description	Weight	Rated Voltage	Rated Capacity	Rated Energy	VBK #	HazMat Shipping Condition
106479001	BATTERY PACK, 36 VOLT, 10S14P, MH1	9600 g	37.0 V	44.8 Ah	1658 Wh	56654 799 099	1
106479002	BATTERY PACK, 24 VOLT, 7S20P, MH1	9600 g	25.9 V	64.0 Ah	1658 Wh	56654 799 094	1
106479003	BATTERY PACK, 48 VOLT, 14S10P, MH1	9600 g	51.8 V	32.0 Ah	1658 Wh	56654 799 090	1
106479004	BATTERY PACK, 24 VOLT, 7S20P, M26	9530 g	25.55 V	52.0 Ah	1329 Wh	56660 799 091	1
106479005	BATTERY PACK, 36 VOLT, 10S14P, M26	9530 g	36.5 V	36.4 Ah	1329 Wh	56660 799 093	1
106479006	BATTERY PACK, 48 VOLT, 4S10P, M26	9530 g	51.1 V	26.0 Ah	1329 Wh	56660 799 092	1
106479007	BATTERY PACK, 24 VOLT, 7S20P, VTC6	9894 g	25.2 V	62.4 Ah	1572 Wh	56667 799 093	1
106479008	BATTERY PACK, 36 VOLT, 10S14P, VTC6	9894 g	36.0 V	43.68 Ah	1572 Wh	56667 799 092	1
106479009	BATTERY PACK, 48 VOLT, 14S10P, VTC6	9894 g	50.4 V	31.2 Ah	1572 Wh	56667 799 091	1
107408866	BATTERY PACK, 36 VOLT, 10S4P	2500 g	36 V	7,8 Ah	280,8 Wh		1

Section 2. Machines / Packages where above batteries can be included

Nilfisk item #	Description	Battery (or Battery kit) incl.	HazMat Shipping Condition
41600820	VP600 Battery AUS/NZ	9100002070	2
41600821	VP600 Battery EU	9100002070	2
41600822	VP600 Battery UK/CH	9100002070	2
41600823	VP600 Battery US	9100002070	2
41600840	GD 5 Battery AUS/NZ	9100002070	2
41600841	GD 5 Battery EU	9100002070	2
41600842	GD 5 Battery UK/CH	9100002070	2
41600843	GD 5 Battery US	9100002070	2
41600844	GD 5 Battery PSU STD. EU/UK	9100002056	2
41600869	BATTERY LI 36V 10S4P + VP600B BATT COVER	9100002070	1
41600872	BATTERY LI 36V 10S4P + BATTERY HANDLE	9100002070	1
41600874	GD 5 BATTERY HEPA US	9100002070	2
41600875	GD 5 BATTERY EXCL. CHARGER	9100002070	2
41600900	VP600 BATTERY – EXCL CHARGER	9100002070	2
41600901	VP600 BATTERY 2B EU	9100002070	2
41600941	GD 5 BATTERY 2B EU	9100002070	2

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Author:	Lars Thorlaksen, Global Packaging Engineer / DGSA			Pages:	2

106479012	BATTERY PACK 24 VOLT 7S20P SIP	106479002	1
107415230	GD5 BATTERY COMMON MACHINE		2
107415240	GD 5 Battery CN		2
107417384	VP600 BATTERY US		2
107417387	VP600 BATTERY COMMON MACHINE		2
107417388	VP600 Battery CN		2
107417543	GD5 BATTERY US		2
9087380020	SCRUBBER SC250 34C B	107408866	2
9087381020	SCRUBBER SC250 13C B	107408866	2
9087382020	SCRUBBER SCRUBTEC 334C B	107408866	2
9087383020	SCRUBBER MA30 13 B	107408866	2
9100002056	BATTERY LI KIT INCL CHARGER EU UK	107408866	1
9100002057	BATTERY LI KIT INCL CHARGER US	107408866	1
9100002070	BATTERY LI 36V 10S4P	107408866	1
9100003047	SC500 LITHIUM ION STANDARD KIT	106479002	1
9100003048	SC2000 LITHIUM ION STANDARD KIT	106479002	1
9100003110	LITHIUM ION UPGRADE KIT SC500/SC2000	106479002	1

Section 3. Other occurrences

The majority of the Nilfisk floor-care machine portfolio, can be equipped with the Nilfisk Lithium-Ion Battery. For any machine defined as a vehicle, the shipping condition will be shipping condition 4. For non-vehicles, meaning equipment, the shipping condition will be 2 or 3.

Section 4. HazMat Shipping Condition Specification

1	UN3480, LITHIUM ION BATTERIES
2	UN3481, LITHIUM ION BATTERIES PACKED WITH EQUIPMENT
3	UN3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT
4	UN3171, BATTERY-POWERED VEHICLE