



# Product Information Sheet

May be used to comply with OSHA's  
Hazard Communication Standard 29 CFR 1910.1200. This standard must be  
consulted for specific requirements.

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Lithium-ion Battery - Rechargeable      **Drawing Number:** MSDS150014-26  
**Issue Date:** 25-June-2021  
**Supersedes Date:** N/A

**Techtronic Product Development Limited or**  
**Techtronic Industries (Dongguan) Co. Ltd. or**  
**TechPower Engineering(Dongguan) Company Limited**

**Company Phone Number:** +852 2402 6888  
**Emergency Contact Number:** +1-800-424-9300 USA only

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www.ttigroup.com

**Chemtrec**  
**For International:** +1 703-741-5970

**PRODUCT NUMBERS:** See Annex I

## SECTION 2: HAZARDS IDENTIFICATION

Health	Environmental	Physical
<b>Eye Irritation:</b> No classified hazards	<b>Acute Toxicity:</b> No classified hazards	<b>Flammable liquid:</b> No classified hazards
<b>Skin Irritation:</b> No classified hazards	<b>Chronic Toxicity:</b> No classified hazards	
<b>Acute Toxicity, Oral:</b> No classified hazards		
<b>Acute Toxicity, Inhalation:</b> No classified hazards		

### GHS Label

No applicable labeling

Hazard Statements	Precautionary Statements
No exposure during routine handling of product	

**CLASSIFIED HAZARDS**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200. This SDS contains valuable information for the safe handling and proper use of this product. Save this SDS for future reference.

**OTHER HAZARDS****Flammable:**

Organic components will burn if cell is incinerated. Combustion of cell contents may cause evolution of Hydrogen Fluoride.

**Potential Health Effects:**

Fluoride interferes with nerve impulse conduction causing severe pain or absence of sensations

**WARNING:**

No exposure during routine handling of product. Hydrofluoric Acid exposure during firefighting: This information is given for the use of professional fire fighters responding to a warehouse fire where fire from other materials may incinerate batteries. This section is provided solely in case of exposure, during firefighting, to the combustion by-products.

**SECTION 3: COMPOSITION /INFORMATION OF INGREDIENTS**

Chemical Name	CAS #	Concentration
Lithium nickel oxide (Li <sub>2</sub> NiO <sub>2</sub> )	12325-84-7	0 - 35
Carbon (Carbon activated)	7440-44-0	0 - 30
Iron (Fe)	7439-89-6	0 - 25
Copper (Cu)	7440-50-8	0 - 30
Lithium nickel oxide (Lithium nickelate)	12031-65-1	0 - 25
Aluminium (Al)	7429-90-5	0 - 15
Cobalt Lithium dioxide (Lithium cobaltite)	12190-79-3	0 - 50
Dimethyl carbonate (Carbonic acid dimethyl ester)	616-38-6	0 - 10
Lithium Manganese (III,IV) oxide (LiMn <sub>2</sub> O <sub>4</sub> )	12057-17-9	0 - 15
Polyethylene (Ethene, homopolymer)	9002-88-4	0 - 10
Ethylene carbonate	96-49-1	0 - 5
Lithium hexafluorophosphate(1-) (LiPF <sub>6</sub> )	21324-40-3	0 - 10
Graphite (Grafito)	7782-42-5	0 - 30
Ethyl methyl carbonate (EMC)	623-53-0	0 - 5
Nickel (Ni)	7440-02-0	0 - 5
1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol (1,2 ethanediol)	25640-14-6	0 - 1
1-Propene, homopolymer	9003-07-0	0 - 1
Nickel sulphide (Nickel monosulfide)	16812-54-7	0 - 1
Poly[N,N'-(1,4-phenylene)-3,3',4,4'-benzophenonetetracarboxylic imide/amic acid] (Imide resin)	26023-21-2	0 - 1
Silicon (Ferro Silicon)	7440-21-3	0 - 1

Lithium carbonate	554-13-2	0 - 1
Carbon black (Carbon)	1333-86-4	0 - 1
1,3 Butadiene/styrene copolymers (Styrene, butadiene copolymer)	9003-55-8	0 - 1
Acetic acid ethenyl ester, polymer with carbon monoxide and ethene	26337-35-9	0 - 1
Carboxymethyl cellulose sodium salt	9004-32-4	0 - 1
Succinonitrile	110-61-2	0 - 1
Aluminum lithium oxide (ALiO)	11089-89-7	0 - 1
Lithium nickel cobalt	346417-97-8	0 - 35
Lithium Nickel Cobalt Oxides	113066-89-0	0 - 40
Polyvinylidene Fluoride	24937-79-9	0 - 10
Silicon Monoxide	10097-28-6	0 - 5
Methyl propanoate	554-12-1	0 - 5
4-Fluoro-1,3-dioxolan-2-one	114435-02-8	0 - 5
diiron trioxide	616-38-6	0 - 10
Boehmite (Al(OH)O)	1318-23-6	0 - 1
1-Methyl-2-pyrrolidinone	872-50-4	0 - 1
Chromium	7440-47-3	0 - 1
ethylbenzene	100-41-4	0 - 1
Lithium Nickel Cobalt Manganese Oxides	182442-95-1	0 - 50
diiron trioxide	1309-37-1	0 - 1
Ethylene Carbonate	96-49-1	0 - 10
ethyl acetate	141-78-6	0 - 1
phlypropylene	9003-07-0	0 - 5
Metal Oxide (proprietary)	182422-95-1	0 - 50
Cobalt oxide	1307-96-6	0 - 30
Manganese dioxide	1313-13-9	0 - 30
Nickel oxide	1313-99-1	0 - 30
Biphenyl (BP)	92-52-4	0 - 0.3
Titanium dioxide	13463-67-7	0-10
Cobalt hydroxide oxide	12016-80-7	0-10
Tricobalt tetraoxide	1308-06-1	0-10
Magnesium carbonate	546-93-0	0-10
Lithium bis(trifluoromethylsulfonyl)imide	90076-65-6	0-1
Butadiene-Styrene-Itaconic acid copolymer	30174-67-5	0-1

Adiponitrile	111-69-3	0-1
Lithium Iron Phosphate	15365-14-7	0-30
Aluminum, Steel, Nickel and other inert materials	N/A	Remainder

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#### **SECTION 4: FIRST AID MEASURES**

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No exposure during routine handling of product. Risk of exposure occurs only if the battery is mechanically or electrically abused.

No effect under routine handling and use to eyes, skin or if inhaled. Ingestion is not likely, given the physical size and state of the cell. If swallowed, seek medical attention immediately.

If exposure to internal materials within cell due to damaged outer casing the following actions are recommended:

##### **EYE CONTACT:**

Flush with water for 15 minutes without rubbing and immediately seek medical attention.

##### **SKIN CONTACT:**

Wash area immediately with soap and water. If irritation continues see medical attention.

##### **INHALATION:**

Leave area immediately and move to fresh air and seek medical attention.

##### **INGESTION:**

If swallowed, contact POISON CONTROL CENTER/DOCTOR immediately.

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## SECTION 5: FIRE FIGHTING MEASURES

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### NFPA 704 Hazard Class



### HMIS



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

### SUITABLE EXTINGUISHING MEDIA:

Water spray, carbon dioxide, dry chemical powder or appropriate foam. Use agent appropriate for surrounding materials.

### UNSUITABLE EXTINGUISHING MEDIA:

None.

### PRODUCTS OF COMBUSTION:

Organic components will burn if incinerated. Combustion of cell contents may cause evolution of Hydrogen Fluoride. In case of fire in an adjacent area, use water, CO<sub>2</sub>, or dry chemical extinguishers if cells are packed in their original containers since the fuel of the fire is basically paper products.

### PROTECTION OF FIREFIGHTERS:

Hydrofluoric Acid exposure during firefighting: This information is given for the use of professional fire fighters responding to a warehouse fire where fire from other materials may incinerate batteries. This section is provided solely in case of exposure, during firefighting, to the combustion by-products.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS:

Use standard industrial clothing in normal use. If handling large containers of cells wear steel-toed footwear.

### ENVIRONMENTAL PRECAUTIONS:

No special precautions necessary.

### METHODS FOR CONTAINMENT:

Transport container outdoors. Hold burned cells and fire cleanup solids for disposal as potential hazardous waste. Unburned cells are not hazardous waste. A fire with over 100 kg of cells burnt will likely require reporting to environmental officials. Always consult and obey all international, federal and local environmental laws.

### METHODS FOR CLEAN-UP:

No data available

### OTHER INFORMATION:

No data available

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## SECTION 7: HANDLING AND STORAGE

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### HANDLING:

Use only approved charging equipment. Do not disassemble battery or battery pack. Do not puncture, crush or dispose of in fire.

### STORAGE:

Store in a cool, dry place away from sparks and flame. Keep below 125°C. Keep above -60°C. Charge between 0°C and 45°C.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Chemical Name	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
Aluminum Foil	TWA 5mg/m <sup>3</sup> *	TWA 5mg/m <sup>3</sup> *	N	N
Biphenyl (BP)	NA	NA	N	N
Copper Foil	NA	NA	N	N
Linear & Cyclic Carbonate solvents	NA	NA	N	N
Graphite Powder/Carbon	NA	NA	N	N
Metal Oxide or other Electrolyte (proprietary)	NA	NA	N	N
Lithium Hexafluorophosphate (LiPF <sub>6</sub> )	NA	NA	N	N
Polyvinylidene Flouride (PVDF)	NA	NA	N	N
Styrene Butadiene Rubber (SBR)	NA	NA	N	N
Aluminum, Steel, Nickel and other inert materials	NA	NA	N	N

### EYE PROTECTION:

Not necessary under conditions of normal use

### SKIN PROTECTION:

Not necessary under conditions of normal use

### RESPIRATORY PROTECTION:

Not necessary under conditions of normal use

### ENGINEERING CONTROLS:

Not necessary under conditions of normal use

### GENERAL HYGIENE CONSIDERATIONS:

Not necessary under conditions of normal use

### EXPOSURE GUIDELINES:

Not necessary under conditions of normal use

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Data represent typical values and are not intended to be specifications. NA=Not Applicable; ND=Not Determined

<b>Physical state:</b> .....	Solid	<b>Viscosity:</b> .....	NA
<b>Colour:</b> .....	NA	<b>Upper Explosive Limits (vol % in air):</b> .....	NA
<b>Odor:</b> .....	Odorless	<b>Lower Explosive Limits (vol % in air):</b> .....	NA
<b>Odor Threshold:</b> .....	NA	<b>Vapor pressure:</b> .....	NA
<b>pH:</b> .....	NA	<b>Vapor density:</b> .....	NA
<b>Melting/Freezing Point:</b> .....	NA	<b>Relative density:</b> .....	NA
<b>VOC Content:</b> .....	NA	<b>Solubility:</b> .....	NA
<b>Boiling Point:</b> .....	NA	<b>Partition Coefficient:</b> .....	NA
<b>Flash Point:</b> .....	NA	<b>Auto-ignition Temperature:</b> .....	NA
<b>Evaporation Rate:</b> .....	NA	<b>Decomposition Temperature:</b> .....	NA
<b>Specific Gravity:</b> .....	NA	<b>Flammability (solid, gas):</b> .....	Organic components will burn if cell is incinerated

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## SECTION 10: STABILITY AND REACTIVITY

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### INCOMPATIBLE MATERIALS:

Water, heat and strong acids.

### DECOMPOSITION PRODUCTS MAY INCLUDE:

Hydrogen Fluoride, Phosphorus Oxides, Carbon Monoxide, Carbon Dioxide, Lithium Hydroxide, Manganese Oxides, Aluminum Oxide, possible fluoro-compounds, Carbon soot.

### CONDITIONS TO AVOID:

Do not crush, puncture, incinerate, immerse in water or heat over 212°F (100°C). Steel casing slowly dissolves in strong mineral acids.

### POLYMERIZATION:

Hazardous polymerization will not occur. Spontaneous decomposition will not occur at normal temperature.

### CHEMICAL STABILITY:

This product is stable.

### REACTIVITY:

Hazardous polymerization will not occur. Spontaneous decomposition will not occur at normal temperature.

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## SECTION 11: TOXICOLOGY INFORMATION

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### LIKELY ROUTES OF EXPOSURE:     Inhalation, Eye and Skin contact

Eye contact, skin contact, skin absorption, inhalation only if burned. Hydrofluoric acid is extremely corrosive. Contact with hydrogen fluoride fumes is to be avoided. Permissible exposure limit is 3ppm. In case of contact with hydrogen fluoride fumes, immediately leave the area and seek first aid **and** emergency medical attention. Symptoms may have delayed onset. Fluoride ions penetrate skin readily causing destruction of deep tissue layers even bone. Fluoride interferes with nerve impulse conduction causing severe pain or absence of sensations. Immediately flush eyes or skin with water for at least 20 minutes to neutralize the acidity and remove some fluoride. Remove and destroy all contaminated clothing and permeable personal possessions. Before re-use, impermeable possessions should be soaked in benzalkonium chloride after washing. Following flushing of the affected areas, an iced aqueous solution of benzalkonium chloride or 2.5% calcium gluconate gel should be applied to react with the fluoride ion. Compresses and wraps may be used for areas where immersion is not practical.

Medicated dressing should be changed every 2 minutes. Exposure to hydrofluoric acid fumes sufficient to cause pain requires immediate hospitalization for monitoring for pulmonary edema.

**ACUTE SYMPTOMS AND EFFECTS:**

**Inhalation:** No further toxicological data known  
**Eye contact:** No further toxicological data known  
**Skin contact:** No further toxicological data known  
**Ingestion:** No further toxicological data known

**OTHER:**

No further data known.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOTOXICOLOGICAL INFORMATION:**

None in routine handling of product.

**TOXICITY:**

No data available

**PERSISTENCE AND DEGRADABILITY (BIOPERSISTENCY & BIODEGRADABILITY):**

None in routine handling of product.

**POTENTIAL OF BIOACCUMULATION:**

None in routine handling of product.

**MOBILITY IN SOIL:**

None in routine handling of product.

**OTHER ADVERSE EFFECTS:**

No data available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**DISPOSAL:**

Dispose in accordance with appropriate regulations. Always consult and obey all international, federal, provincial/state and local hazardous waste disposal laws. Some jurisdictions require recycling of this spent product. Battery recycling is encouraged. Lithium ion batteries are safe for disposal in the normal municipal waste stream since they are not defined by the federal government as hazardous waste. However, Lithium ion batteries are recyclable.

This product does not contain mercury, cadmium or Lithium (metal).

**DO NOT INCINERATE** or subject battery cells to temperatures in excess of 212°F (100°C).



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## SECTION 14: TRANSPORTATION INFORMATION

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### U.S. DOT HAZARDOUS MATERIAL REGULATIONS (RE: GROUND TRANSPORT)

#### Proper Shipping Description:

UN3480 Lithium-ion batteries; UN3481 Lithium-ion batteries packed with or contained in equipment; Class 9.

TPD Ltd. Lithium-ion batteries are to be shipped in compliance with relevant requirements of HMR “49 CFR 173.185”.

### CANADA TRANSPORT DANGEROUS GOODS (RE: GROUND TRANSPORT)

#### Proper Shipping Description:

UN3480 Lithium-ion batteries; UN3481 Lithium-ion batteries packed with or contained in equipment; Class 9.

TPD Ltd. Lithium-ion batteries are to be shipped in compliance with relevant requirements of TDG “Part 2” (Section 2.43), or TDG “Schedule 2” (Special Provision 34), as applicable.

### INTERNATIONAL DANGEROUS GOODS REGULATIONS (RE: AIR, SEA, GROUND TRANSPORT)

#### Proper Shipping Description:

UN3480 Lithium-ion batteries; UN3481 Lithium-ion batteries packed with or contained in equipment; Class 9.

TPD Ltd. Lithium-ion batteries are to be shipped in compliance with relevant requirements of the following DG Regulations:

- IATA Dangerous Goods Regulations – 2021(62<sup>nd</sup> Edition) and ICAO Technical Instructions (2020-2021): Packing Instructions 965; 966; 967. Apply Section I, Section IB, or Section II, as applicable.
- IMDG Code: Packing Instruction P903, or Special Provision 188, as applicable.
- UN Model Regulations on the Transport of Dangerous Goods: Packing Instruction P903, or Special Provision 188, as applicable.
- UN European Agreements (ADR/RID/ADN): Packing Instruction P903, or Special Provision 188, as applicable.
- Australian Dangerous Goods (ADG): Packing Instruction P903, or Special Provision 188, as applicable.

#### IMPORTANT CONSIDERATIONS:

The proper classification, packaging, labeling, marking, and documentation requirements for shipping Lithium-ion batteries is dependent upon whether the particular batteries are:

- a.) Rated at 100 Watt-hours (Wh) or less; or
- b.) Rated at greater than 100Wh.

*Lithium-ion batteries rated 100Wh or less are excepted from certain Class 9 DG requirements.* Always check compliance of Lithium-ion battery consignments against the current DG Regulations in effect that govern the chosen mode of transport. When in doubt, contact the carrier or other trained Dangerous Goods professional to confirm acceptability.

### UN 38.3 BATTERY TRANSPORTATION TESTING:

TPD Ltd. rechargeable Lithium-ion batteries listed in Section 1 have passed the relevant transportation test requirements as described in the UN *Manual of Tests and Criteria*, Part III, section 38.3.

UN 38.3 Test Reports are maintained on file at the corporate headquarters of Techtronic Product Development Limited located at 28/F&29F, Tower 2, Kowloon Commerce Centre, 51 Kwai Cheong Road, Kwai Chung, Hong Kong.

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## SECTION 15: REGULATORY INFORMATION

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### GLOBAL INVENTORIES

<b>TSCA: United States</b>	See Sec. 14. Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>DSL: Canada</b>	See Sec. 14. Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>ECL: Korea</b>	Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>PICCS: Philippines</b>	Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>ENCS: Japan</b>	Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>AICS: Australia</b>	Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>IECS: China</b>	Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.
<b>EINECS: European Union</b>	Compliant with, relevant transportation test requirements as described in the UN Manual of Tests & Criteria, Part III, Sub-section 38.3.

### SARA 313 Information:

SARA Title III Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

### WHMIS: Canadian Workplace

This product does not contain regulated levels of any toxic chemical subject to the reporting requirements

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## SECTION 16: OTHER INFORMATION

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### ABBREVIATIONS:

<b>TSCA</b> .....	Toxic Substance Control Act
<b>ICAO</b> .....	International Civil Aviation Organization
<b>IMDG</b> .....	International Maritime Dangerous
<b>OSHA</b> .....	Occupational Safety and Health
<b>IARC/NTP</b> .....	International Agency for Research on Cancer/National Toxicology Program
<b>SARA</b> .....	Superfund Amendments and Reauthorization Act of 1986
<b>ACGIH</b> .....	American Conference of Governmental Industrial Hygienists
<b>NIOSH/MSHA</b> .....	National Institute for Occupational Safety Health/ Mine Safety and Health Administration
<b>WHMIS</b> .....	Workplace Hazardous Materials Information System

**Prepared by:** Techtronic Product Development Limited

The batteries referenced herein are considered exempt articles and are not subject to the OSHA Hazard Communication Standard; therefore a SDS is not required. This sheet is being provided as a service to our customers.

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. **Techtronic Product Development Limited** makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereto.

## Annex I

Table of battery packs:

Brand name	Model number	Voltage (V)	Rated capacity (Ah)	Rated Capacity (Wh)
Ryobi	AP4001	4	1.3	5
Ryobi	CB121L	12	1.3	14
Ryobi	P102	18	1.3	24
Ryobi	P105	18	2.6	48
Ryobi	P107	18	1.5	27
Ryobi	P108	18	4	72
Ryobi	HP108L	8	1.3	9.5
Ryobi	HP44L	4	1.3	5
Ryobi	OP242	24	2.6	56
Ryobi	OP243	24	1.5	33
Ryobi	OP4015	40	1.5	54
Ryobi	OP4026	40	2.6	95
Ryobi	OP4040	40	4	144
Ryobi	BSPL1213	12	1.3	15
Ryobi	RB12L13	12	1.3	14
Ryobi	BPL1414	14.4	1.4	19
Ryobi	RB14L15	14.4	1.5	21.9
Ryobi	RB14L25	14.4	2.5	36
Ryobi	RB18L13	18	1.3	24
Ryobi	RB18L26	18	2.6	48
Ryobi	RB18L15	18	1.5	27
Ryobi	RB18L40	18	4	72
Ryobi	RB18L25	18	2.5	45
Ryobi	RB18L50	18	5	90
Ryobi	R8DD-L13	8	1.3	9.5
Ryobi	BPL3615	36	1.5	54

## Annex I

Table of battery packs (Continued):

Brand name	Model number	Voltage (V)	Rated capacity (Ah)	Rated Capacity (Wh)
Ryobi	BPL3626	36	2.6	93.6
Ryobi	BPL3640	36	4	144
Ryobi	BPL3640D	36	4	144
Ryobi	BPL3650D	36	5	180
Ryobi	BPL3626D	36	2.6	95
Ryobi	BPL3625D	36	2.5	90
Ryobi	ES9200	5	0.4	2
Ryobi	OP4050	40	5	180
Ryobi	BPL3650	36	5	180
Ryobi	RPS1215	12	1.3	14
Ryobi	R7SD	7.2	1.3	9.5
Ryobi	R4SDP	4	1.3	5
Ryobi	P190	18	2	36
Ryobi	RB18L20	18	2	36
Ryobi	OP40261	40	2.6	95
Ryobi	P194	18	9	162
Ryobi	P189	18	1.5	27
Ryobi	OP4030	40	3	108
Ryobi	RB18L90	18	9	162
Ryobi	BPL3626D2	36	2.6	95
Ryobi	BPL3630D	36	3	108
Ryobi	RB18L15B	18	1.5	27
Ryobi	P192	18	4	72
Ryobi	RB18L40B	18	4	72
Ryobi	OP40301	40	3	108

Table of battery packs (Continued):

Brand name	Model number	Voltage (V)	Rated capacity (Ah)	Rated Capacity (Wh)
Ryobi	OP40501	40	5	180
Ryobi	BPL3650D2	36	5	180
Ryobi	P191	18	3	54
Ryobi	RB18L30	18	3	54
Ryobi	RB18L30A	18	3	54
Ryobi	RB18L20A	18	2	36
Ryobi	P192	18	4	72
Ryobi	RB18L40B	18	4	72
Ryobi	RB18L40A	18	4	72
Ryobi	RB18L90A	18	9	162
Ryobi	ERGO	4	1.5	5
Ryobi	ERGO	4	1.3	5
Ryobi	P193	18	6	108
Ryobi	RB18L60	18	6	108
Ryobi	RB18L60A	18	6	108
Ryobi	RB18L15A	18	1.5	27
Ryobi	P102	18	1.5	27
Ryobi	P197	18	4	72
Ryobi	HP34L	4	1.5	5
Ryobi	RB18L25A	18	2.5	45
Ryobi	RB18L40A	18	4	72
Ryobi	OP40601	40	6	216
Ryobi	OP40501	40	5	180
Ryobi	OP40201	40	2	72
Ryobi	OP40401	40	4	144

## Annex I

Table of battery packs (Continued):

Ryobi	OP40301	40	3	144
Ryobi	HP108L, R8DD, R7SD	8	1.3	9.5
Ryobi	RB18L50, P177	18	5.0	90
Ryobi	HP44L, R4DSP	4	1.3	5
Ryobi	HP43L, R4SD	4	1.3	5
Ryobi	P191	18	3	54
Ryobi	ERGO, R4SDC	4	1.5	5
Ryobi	ERGO, R4SDC	4	1.3	5
Ryobi	P195, RB18L30, RB18L30A	18	3	54
Ryobi	RB18L25B	18	2.5	45
Ryobi	RB18L50A	18	5	90
Ryobi	BPL3640D2	36	4	144
Ryobi	BPL3660D	36	6	216
Ryobi	BPL3620D	36	2	72
Ryobi	R4SD	4	1.5	6
Ryobi	R4SDP	4	1.5	6
Ryobi	R7SD	7.2	1.5	10.8
Ryobi	R8DD	8	1.5	12
Ryobi	P108, P197, RB18L40, RB18L40A	18	4	73
Ryobi	P108, P197, RB18L40, RB18L40A	18	4	72
Ryobi	OP40602	40	6	216

## Annex I

Table of battery packs (Continued):

Ryobi	RY36B60A, BPL3660D	36	6	216
Ryobi	HP34L	4	1.3	5
Ryobi	OP40752	40	7.5	270
Ryobi	OP40902	40	9	324
Ryobi	OP40122	40	12	432
Ryobi	RY36B90A, BPL3690D	36	9	324
Ryobi	RY36B12A, BPL3612D	36	12	432
Ryobi	PBP001	18	1.3	24
Ryobi	RB18L13, RB18L13Z	18	1.3	24
Ryobi	P4400	4	2.0	7
Ryobi	PBP002	18	1.5	27
Ryobi	RB1815C	18	1.5	27
Ryobi	PBP003	18	2.0	36
Ryobi	PBP003	18	2.0	37
Ryobi	PBP004	18	4.0	72
Ryobi	PBP004	18	4.0	74
Ryobi	PBP005	18	4.0	72
Ryobi	PBP005	18	4.0	74
Ryobi	PBP006	18	2.0	36
Ryobi	PBP006	18	2.0	37
Ryobi	RB1820C	18	2.0	36
Ryobi	RB1820C	18	2.0	37
Ryobi	RB1840C	18	4.0	72
Ryobi	RB1840C	18	4.0	74
Ryobi	RB1840X	18	4.0	72

## Annex I

Table of battery packs (Continued):

Ryobi	RB1840X	18	4.0	74
Ryobi	OP40404	40	4.0	144
Ryobi	OP40204	40	2.0	72
Ryobi	OP40504	40	5.0	180
Ryobi	OP40604	40	6.0	216
Ryobi	OP40602VNM	40	6.0	216
Ryobi	RB12L20	12	2.0	22
Ryobi	BSPL1220	12	2.0	22
Ryobi	R36BTY2, RY36B20B	36	2.0	72
Ryobi	R36BTY4, RY36B40B	36	4.0	144
Ryobi	R36BTY5, RY36B50B	36	5.0	180
Ryobi	RB1850C	18	5	90
Ryobi	RB1850X	18	5	90
Ryobi	OP40753	40	7.5	270
Ryobi	OP40404VNM	40	4.0	144
Ryobi	PBP002	18	1.5	28
Ryobi	RB1815C	18	1.5	28
Ryobi	PBP007	18	6	108
Ryobi	RB1860X	18	6	108
Ryobi	RB1825C	18	2.5	45
Ryobi	OP40603VNM	40	6.0	216
Ryobi	OP40753VNM	40	7.5	270
Ryobi	OP40125	40	12	432
Ryobi	OP40125VNM	40	12	432
Ryobi	OP40605	40	6	216
Ryobi	OP40605VNM	40	6	216



# Annex I

Table of battery packs (Continued):

Ryobi	OP40504VNM	40	5	180
Ryobi	OP40804	40	8	304
Ryobi	OP40603	40	6	216
Ryobi	RB18L20	18	2	37
Ryobi	AP4001	4	1.5	6
Ryobi	HP108L	8	1.5	11
Ryobi	HP34LVN	4	1.5	5
Ryobi	HP44LVN	4	1.5	5
Ryobi	RB1840HE	18	4	72