

Safety Data Sheet (SDS) Report

Applicant: Macnaught Pty Ltd
41/49 Henderson Street Turrella NSW Australia

SDS number: **P2020062202**

Issue Date: 2020-06-30

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : rechargeable 18V Li-ion Battery pack
Physical State : Solid
Data Received : Jun 22, 2020
Data Reviewed : Jun 30, 2020

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with WHS and ADG requirements, for details please refer to attached pages.

Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang
Regulatory Consultant

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Safety Data Sheet

rechargeable 18V Li-ion Battery pack

Macnaught Pty Ltd

SDS number: P2020062202

Version No: 1.0
According to WHS and ADG requirements

Issue Date: 30/06/2020
GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	rechargeable 18V Li-ion Battery pack
Proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)
Other means of identification	Model NOs: MBP2000MAH (2.0Ah), MBP3000MAH (3.0Ah)

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

Relevant identified uses	Rechargeable Lithium Ion battery
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Details of the supplier of the safety data sheet

Supplier name	Macnaught Pty Ltd / Macnaught USA Inc
Address	41/49 Henderson Street Turrella NSW Australia / 614 S Ware Blvd Tampa, FL 33619
Telephone	1800 185 102 / (813) 628-5506
Email	sales@macnaught.com.au / sales@macnaughtusa.com

Emergency telephone number

Association / Organisation	Macnaught Pty Ltd / Macnaught USA Inc
Emergency telephone numbers	1800 185 102 (813 628-5506)

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

DANGEROUS GOODS. NON-HAZARDOUS CHEMICAL. According to the WHS Regulations and the ADG Code.

Classification	Not Applicable
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Label elements

Hazard pictogram(s)	Not Applicable
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SIGNAL WORD	NOT APPLICABLE
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Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

This product is rechargeable 18V Li-ion Battery pack.
Model NOs: MBP2000MAH (2.0Ah), MBP3000MAH (3.0Ah)

rechargeable 18V Li-ion Battery pack

SECTION 4 FIRST AID MEASURES**Description of first aid measures**

This product contains an organic electrolyte. If the electrolyte is leaking out of the battery pack, the following measures have to be taken.

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, call a physician.
Inhalation	Take affected persons into the open air and position comfortably Supply fresh air or oxygen; call for doctor. In case of unconsciousness bring patient into stable side position for transport.
Ingestion	Generally not applicable.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES**Extinguishing media**

- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).

Special hazards arising from the substrate or mixture

Fire Incompatibility	<ul style="list-style-type: none"> ▶ Keep dry ▶ NOTE: May develop pressure in containers; open carefully. Vent periodically.
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Advice for firefighters

Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire.
Fire/Explosion Hazard	Formation of toxic gases is possible during heating or in case of fire.
HAZCHEM	4W

SECTION 6 ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"> ▶ Clean up all spills immediately. ▶ Secure load if safe to do so.
Major Spills	<ul style="list-style-type: none"> ▶ Clear area of personnel. ▶ Clean up all spills immediately. ▶ Secure load if safe to do so.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE**Precautions for safe handling**

Safe handling	<ul style="list-style-type: none"> ▶ Limit all unnecessary personal contact. ▶ Wear protective clothing when risk of exposure occurs.
Other information	<ul style="list-style-type: none"> ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ Store away from incompatible materials. ▶ Avoid direct sunlight, high temperature, high humidity. ▶ Store in a cool place (temperature: -20 °C ~ 35 °C, humidity: 45 - 85%)

Conditions for safe storage, including any incompatibilities

Continued...


rechargeable 18V Li-ion Battery pack

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear.
Storage incompatibility	<ul style="list-style-type: none"> ▶ Keep dry ▶ NOTE: May develop pressure in containers; open carefully. Vent periodically.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA**

No additional information available

Exposure controls

Appropriate engineering controls	Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.
Personal protection	
Eye and face protection	<ul style="list-style-type: none"> ▶ Safety glasses. ▶ Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: <ul style="list-style-type: none"> ▶ Overalls.

Respiratory protection

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance	Solid		
Physical state	Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Flammable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
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rechargeable 18V Li-ion Battery pack

Chemical stability	Product is considered stable under normal use condition.
Possibility of hazardous reactions	No known hazardous polymerization reactions.
Conditions to avoid	See section 7
Incompatible materials	Conductive materials, water, seawater, strong oxidizers and strong acids.
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Acute Toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION**Toxicity**

rechargeable 18V Li-ion Battery pack	Based on available data, the classification criteria are not met.
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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No data available	No data available

Bioaccumulative potential

Ingredient	Bioaccumulation
	No data available

Mobility in soil

Ingredient	Mobility
	No data available

SECTION 13 DISPOSAL CONSIDERATIONS**Waste treatment methods**

Product / Packaging disposal	<ul style="list-style-type: none"> ▶ Recycle wherever possible or consult manufacturer for recycling options. ▶ Consult State Land Waste Management Authority for disposal.
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SECTION 14 TRANSPORT INFORMATION

Marine Pollutant	NO
HAZCHEM	4W

Land transport (ADG)

UN number	3480				
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)				
Transport hazard class(es)	<table style="border: none;"> <tr> <td style="border: none;">Class</td> <td style="border: none;">9</td> </tr> <tr> <td style="border: none;">Subrisk</td> <td style="border: none;">Not Applicable</td> </tr> </table>	Class	9	Subrisk	Not Applicable
Class	9				
Subrisk	Not Applicable				

rechargeable 18V Li-ion Battery pack

Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions	188 230 310 348 376 377 384 387
	Limited quantity	0

Air transport (ICAO-IATA / DGR)

UN number	3480	
UN proper shipping name	Lithium ion batteries (including lithium ion polymer batteries)	
Transport hazard class(es)	ICAO/IATA Class	9
	ICAO / IATA Subrisk	Not Applicable
	ERG Code	12FZ
Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions	A88 A99 A154 A164 A183 A201 A206 A213 A331 A334 A802
	Cargo Only Packing Instructions	See 965
	Cargo Only Maximum Qty / Pack	See 965
	Passenger and Cargo Packing Instructions	Forbidden
	Passenger and Cargo Maximum Qty / Pack	Forbidden
	Passenger and Cargo Limited Quantity Packing Instructions	Forbidden
	Passenger and Cargo Limited Maximum Qty / Pack	Forbidden

Sea transport (IMDG-Code / GGVSee)

UN number	3480	
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	
Transport hazard class(es)	IMDG Class	9
	IMDG Subrisk	Not Applicable
Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	EMS Number	F-A , S-I
	Special provisions	188 230 310 348 376 377 384 387
	Limited Quantities	0

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

Legal Summary:

Global - Global Harmonised Standard GHS: lithium – ion batteries are not classified as hazardous chemicals under the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). GHS is the classification system used under the WHS legislation and as the product is not classified as a hazardous chemical then no SDS needs to be prepared. Note the batteries are still classified as Class 9 Dangerous Goods under the Australian Dangerous Goods Code for transport purposes only.

EU - Regulation EC # 1907/2006 EC defines these batteries as "no substances" or "preparation" and the batteries are to be regarded as "articles". No substances are intended to be released during handling. Therefore, pursuant to regulation (EC) 1907/2006, Article 31, there is no obligation to provide a MSDS/SDS.

SECTION 16 OTHER INFORMATION

Initial Date	30/06/2020
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Other information

All information contained in this Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet. Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Macnaught accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.